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AUGUST 1, 1931.

Vol. CXV.

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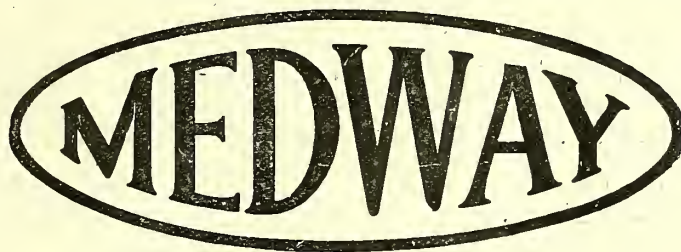
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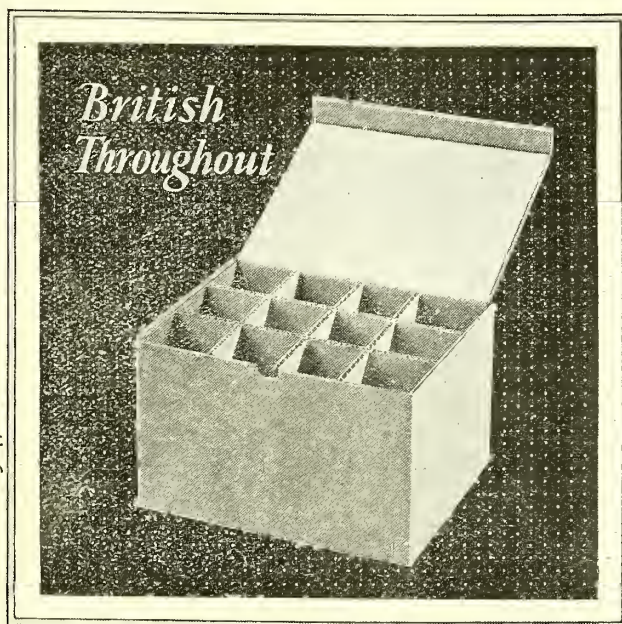
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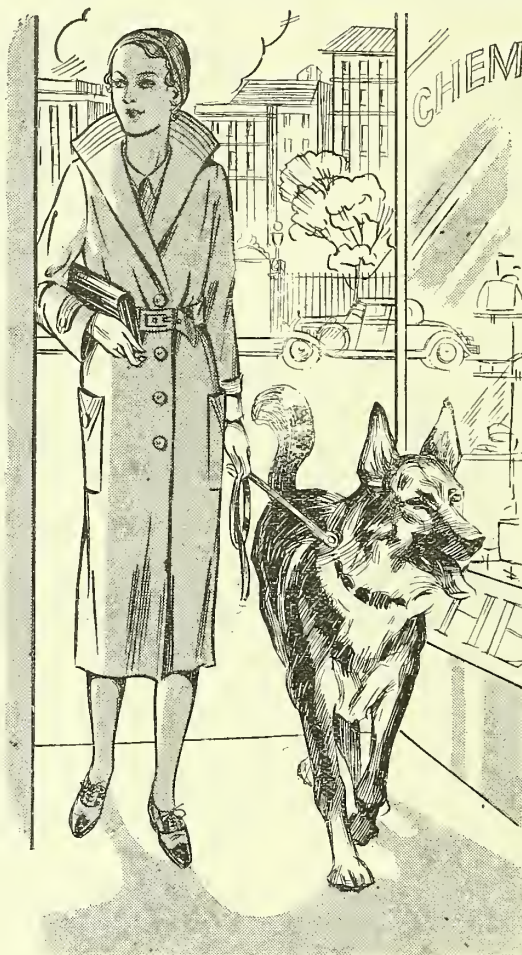
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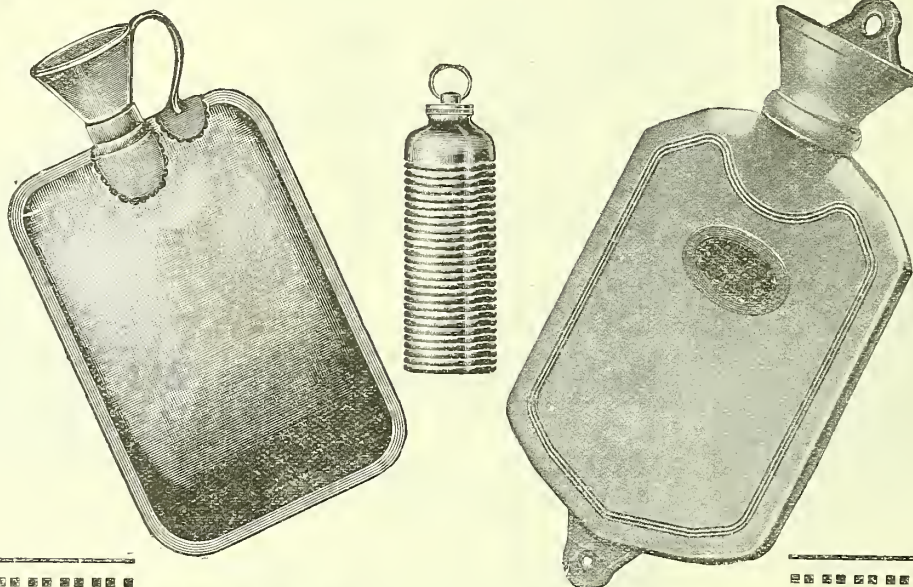
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INDEX TO ADVERTISERS

Allan Manfg. Co., Ltd. (Daylight Signs)	19	Burrough, J., Ltd. (Alcohol) Leader Page		Felling Zinc Oxide Co. (Zinc Oxide) ..	it
Amo Safety Razor Blade Co., Ltd. (Shaving Cream)	13	Burroughs Wellcome & Co. ("Haze-line" Snow")	23	Fellows Medical Manfg. Co., Inc. (Fellows Syrup)	xii
Anzora Perfumery Co., Ltd. (Hair Cream, &c.)	12	Bush, W. J., & Co., Ltd. (Essential Oils, &c.)	Cover	Ferber, Robert, Ltd. (Capsules, &c.) ..	xiv
Association of Manfg. Chemists, Ltd. Col. Supp.		Butler & Crispe (Hot Water Bottles) ..	4	Fox, Francis F., & Co., Ltd. (Oils) ..	xxiii
Automatic Machine Co., Ltd. (Roll Film Machines)	Leader Page	Caldicot Tin Stamping Works, Ltd. (Decorated Tins)	xxii	Gardiner & Co. (The Scotch House), Ltd. (Overalls)	xvii
Ayrton, Saunders & Co., Ltd. (Wholesale Druggists)	15	Camwal, Ltd. (Mineral & Aerated Waters)	xviii	Gardner, W., & Sons (Glos.), Ltd. (Machinery)	20
Baiss Bros. & Co., Ltd. (Wholesale Druggists)	iv	Capsuloids (1909), Ltd. (Cicfa)	x	Garfield Tea Co.	x
Baker Metal Stopper Co., Ltd. (Screw Caps, &c.)	16	Christy, T., & Co. (Cachet Machines) ..	19	Gem Automatic Weighing Machine Co., Ltd.	17
Battle, J. C. M. (Vermin Killer)	16	Clark, S. F. (Valuer, &c.) Col. Supp.		George, Ernest J. (Valuer, &c.) Col. Supp.	
Beechams Pills, Ltd. (Pills and Powders)	xi	Coates & Cooper, Ltd. (Lacto Dextrin, &c.)	xix	Gledhill, G. H., & Sons (Cash Tills) ..	xvi
Bell, John, Hills & Lucas, Ltd. (Pharm. Preps.)	Leader Page	Constipon Tablets	xiv	Gollin & Co. Pty., Ltd. (Aspro)	xiii
Benque & Co., Ltd. (Bengue's Balsam)	x	Continental Laboratories, Ltd. (Taxol) ..	viii	Gower, John (Books)	Col. Supp.
Berdoe & Fish (Valuers, &c.) Col. Supp.		Corrugated Packing Materials Co., Ltd. (Corrugated Paper Boxes, &c.) ..	18	Graesser-Monsanto Chemical Works, Ltd. (Lysol)	Cover
Berton, Arthur, Ltd. (Sponge Bags, &c.)	xxii	Cox, A. H., & Co., Ltd. (Fruit Laxatives)	Cover	Griffin & Tatlock, Ltd. (Colton Pharmaceutical Machinery)	20
Blackie, R. (Spun Ointments, &c.) ..	viii	Crookes Laboratories (Collosol Zinc Cream)	xii	Grout & Co., Ltd. (Crêpe Bandages) ..	xx
Blythe, W., & Co., Ltd. (Chemicals) ..	iii	Cupal, Ltd. (Secto Insecticide)	7		
Bob Martin, Ltd. (Dog Remedies) ..	2	Danto Rogcat & Cie (Enamelled Iron-ware)	20	Hackett, S. E. (Film Overstocks) Col. Supp.	
Box 174/209 (Agencies, &c.) Col. Supp.		Davidson, J. (Boxes and Cartons) ..	9	Hampshire, F. W., & Co. (1927), Ltd. (Flycatchers, &c.)	18-x
Boxall, Smith & Co. (Nitroscleanan, &c.)	xvi	Dee Oil Co., Ltd. (Petroleum Jelly) ..	14	Hanson, W., & Sons, Ltd. (Glassware) ..	16
Brady & Martin, Ltd. (Galenicals, &c.)	xvi	Dorian Trading Co., Ltd. (Blades) ..	17	Harker, C. R., Stagg & Morgan, Ltd. (Petrolax)	xv
Brierley, John (Valuer, &c.) .. Col. Supp.		Dudley & Co., Ltd. (Glass Counters) ..	xvii	Harkness, Beaumont & Co., Ltd. (Disinfectant)	vi
British Drug Houses, Ltd. (Eastern Foam)	24	Duncan, Flockhart & Co. (Toilet Preparations)	iv	Harley, T. (Rodine)	18
British Xylonite Co., Ltd. (Halax Toothbrushes)	19	Edge, Wm., & Sons, Ltd. (Drummer Dyes)	17	Harris, J., & Co. (Surgical Rubber Goods)	xxiii
Britton, Malcolm & Waymark, Ltd. (Druggists' Sundries)	8	Edme, Ltd. (Malt Extract)	xix	Hill, Thos., Engineering Co. (Hull), Ltd. (Bottle Washing Machinery) ..	xxiii
		Edwards, W., & Sons (Peroxide Dental Cream)	12	Himrod Manfg. Co., Ltd. (Asthma Cure)	xiv
		Evaus, Gadd & Co., Ltd. (Drugs, &c.) ..	i		

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INDEX—cont.

Hopkin & Williams, Ltd. (Chemicals) vi	Menley & James, Ltd. (C.O.N. Tablets) ii	Shadeine Co. (Hair Dyes) 19
Horlicks Malted Milk Co., Ltd. xviii	Methylating Co., Ltd. (Methylated Spirit) vii	Shadforth Prescription Service, Ltd. 22
Howard, Lloyd, & Co., Ltd. (Tablets) vi	Midgley & Parkinson, Ltd. (Yeast Preps.) xvi	Sharpe & Dohme, Ltd. (Hexylresorcinal Solution) xvi
Ilford, Ltd. (Selo Films) xxiv	Mills, H., & Sons (Shopfittings) 16	Simpson, W. (Optical Tuition) Leader Page
Jackel et Cie (of Paris), Ltd. (Hair Cream, &c.) 12	Molson Ionized Iodine Co., Ltd. xvi	Smith, Lewis (Dog Medicines) 19
Johnson & Sons Mfg. Chemists, Ltd. (Standardised Galenicals) iii	Mundet Cork Products, Ltd. 9	Smith, T. & H., Ltd. (Alkaloids) ... Cover
Josephs, Philip, & Sons, Ltd. (Shopfittings) Col. Supp.	Munns Bros., Ltd. (D. & P. Service) 19	Smith, T. J. & Nephew, Ltd. (Elastoplast) i
Kaydor, Ltd. (Morfi Rubber Products) 19	Neill, J., & Co. (Sheffield), Ltd. (Razor Blades) 17	Solazzi (Liquorice) vii
Kent, G. B., & Sons, Ltd. (Brushes) 17	Newball & Mason (Extract of Herbs) xix	Solport Bros., Ltd. (General Catalogue) xxi
King, G., & Co., Ltd. (Foods) 19	Norwegian Cod Liver Oil xviii	Southall Bros. & Barclay, Ltd. (Sanitary Towels) xxii
Kinross, A. (Printing) 8	Oldfield, Pattinson & Co. (Pharm. Preps.) 5	Stanberts, Ltd. (Advertising Balloons, &c.) 19
Lennon, Ltd. (South African Agencies) vii	Orridge & Co. (Valuers, &c.) .. Col. Supp.	Sterns, Ltd. (Oils, Petroleum) 14
London Capsule Co. ("Adaptocaps") 9	Potter & Clarke, Ltd. (Wholesale Druggists) 21	Tatcho Laboratories (Hair Preps.) .. 19
McClure, Young & Co., Ltd. (Lysol) xv	Prideaux's, Ltd. (Dried Milk) 19	Tomlinson, R., & Son (Shopfittings) 19
Macfarlan, J. F., & Co. (Ether, &c.) Cover	Pure Russian Liquid Paraffin Co., Ltd. 14	Towle, E. T., & Co., Ltd. (Pennyroyal Pills, &c.) xiv
McGlashan, D., Ltd. (Abdine) xviii	Rendell, W. J., Ltd. (Quinine Presaries) xxi	Townsend, James, & Sons (Showcards) xviii
Macin'op, Ltd. (Animal Hot Water Bottles) xx	Riley, J., & Sons, Ltd. (Hypo) iv	Town Talk Polish Co. (Polishing Cloths, &c.) 8
Marie Antoinette Co. (Morgan's Pomade) 16	Rivista Italiana delle Essenze e Profumi vi	United Drug Co., Ltd. (Pharmaceutical Products) ix
Martin, Bob, Ltd. (Dog Preparations) 2	Roberts, Cole & Co., Ltd. (Barnsule Capsules) 10	United Indigo & Chemical Co., Ltd. ("Winning Colours" Dyes) xxiii
Matthews, D., & Sons (Shopfittings) Col. Supp.	Rose, J. L., Ltd. (Pyrogallie Acid) .. iii	Viscose Development Co., Ltd. (Bottle Capping) xvii
Matthews Laboratories, Ltd. (Digitalis) Leader Page	Rowland, A., & Sons, Ltd. (Macassar Oil) 12	Westminster College of Pharmacy .. 16
Maund, F., & Berg, E., Ltd. (Showcases) 19-Col. Supp.	Rudduck & Co. (Shopfittings) Col. Supp.	Whey Products, Ltd. (Milk Sugar) .. 6
Maw, S., Son & Sons, Ltd. 11	Rutherford, J., & Co., Ltd. (Toilet Rolls) xxii	Whiffen & Sons, Ltd. (Bromides, &c.) v
Medicus, Ltd. (Harystor) 13	Sangers, Ltd. (Toilet Preps.) 3	Wood Bros. Glass Co., Ltd. (Pharmaceutical Glassware) 9
Medway Corrugated Paper Co., Ltd. (Corrugated Papers, &c.) 1	Scruton, O., & Co. (Nurse Harvey's Mixture) 16	Wyleys, Ltd. (Pharmaceuticals) ... Cover
	Scurr, C. A. (Optical Tuition) Leader Page	Zeal, G. H., Ltd. (Clinicals) xx



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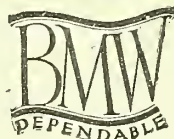
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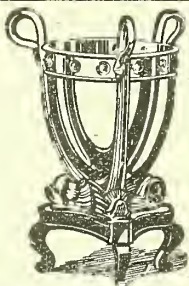
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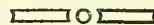
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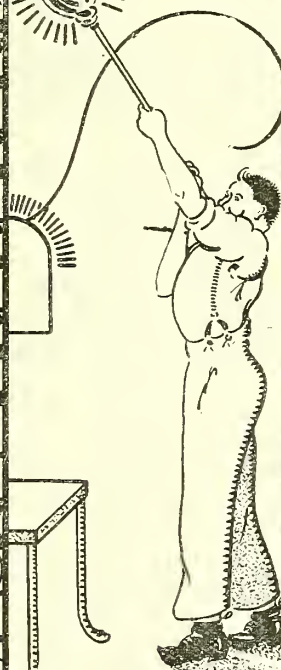
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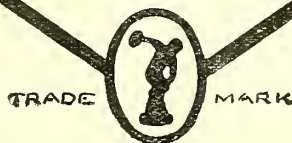


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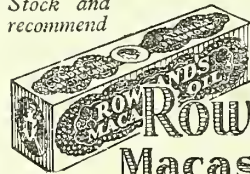
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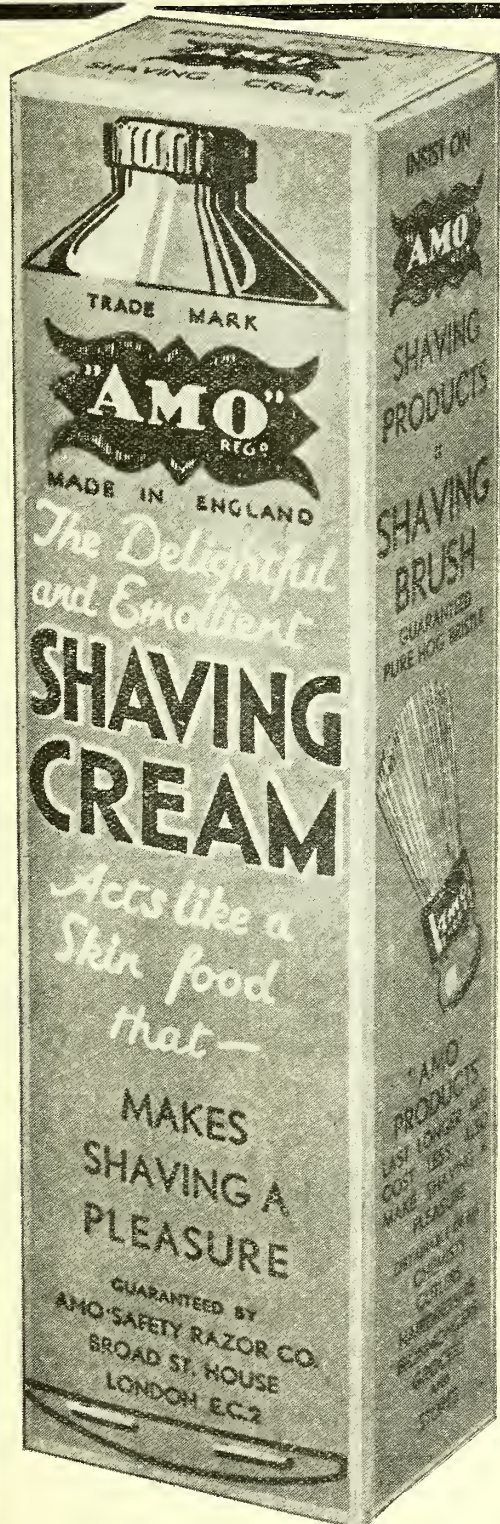


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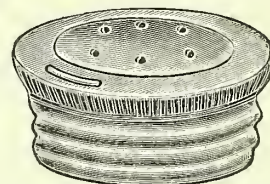
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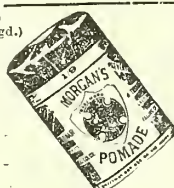
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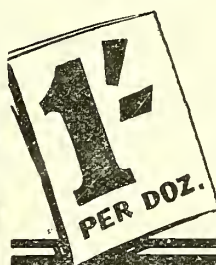
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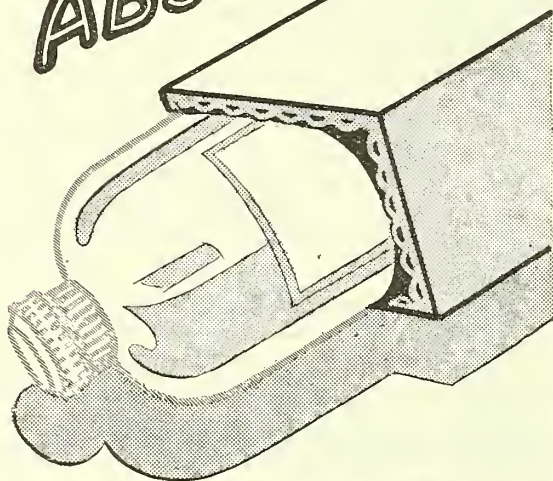


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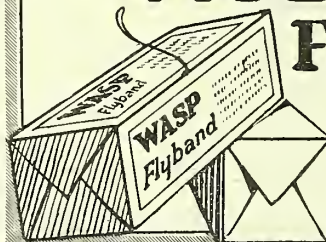
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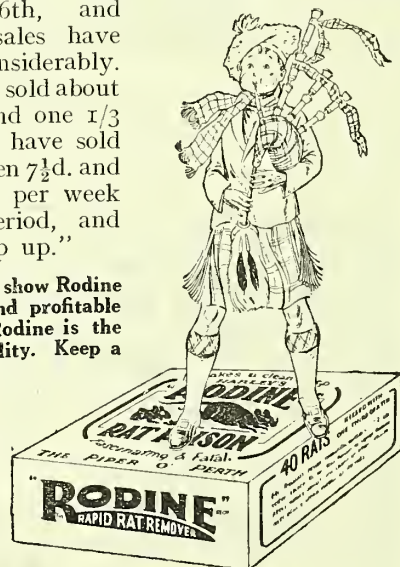
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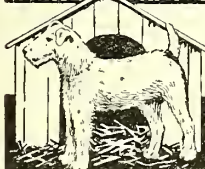
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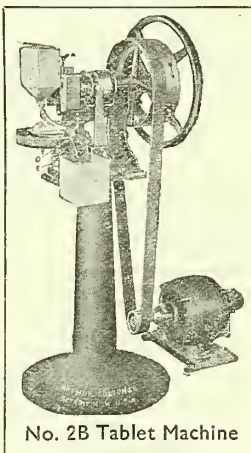
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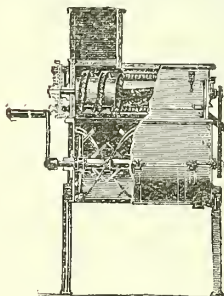
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SIFTER & MIXER

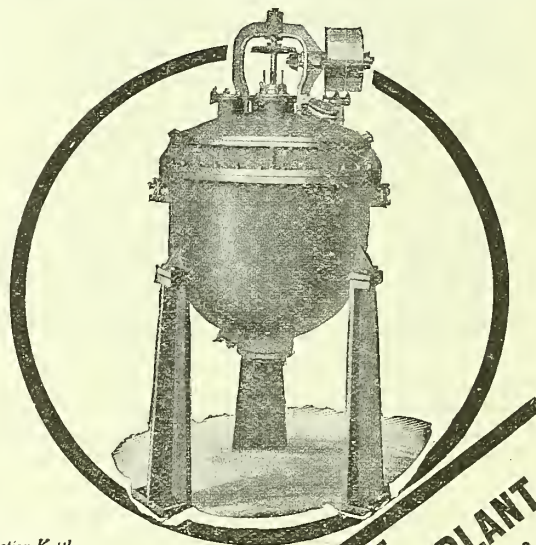
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A big advertising campaign offering the new "Lucky Elephant" Beautifier to users of "Eastern Foam" is now in full operation, and will continue in leading national daily papers and feminine periodicals until September.

The offer has been warmly received by the public, and as every applicant for the Beautifier is required to enclose an "Eastern Foam" carton, increased sales are being made among an extended circle of users.



For the Counter



For the Window

Distribution of the Beautifier is made only direct from us. What we ask from the pharmacist is that he should help to popularise the offer by displaying the handsome "Modern Beauty" showcards here illustrated.

The large card is for the window and invites the customer into the shop, where she should find the smaller cut-out showcard (with a supply of coupon leaflets describing the Beautifier) on the counter.

*Write to-day for the new
"Eastern Foam" show material.*

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THE CHEMIST AND DRUGGIST

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VOL. 115. NO. 2686

CONTENTS

AUGUST 1, 1931

PAGE	PAGE	PAGE	PAGE
Association Meetings 144	C. & D. Commercial	Information Depart-	Personalities 155
Books, New 158	Compendium 169	ment 156	Pharmacopœia Com-
British Pharmacœu-	Deaths 155	Irish Notes 140	mission 159
tical Conference:	Editorial Articles:—	Legal Reports 142	Retrospect 168
Closing Session ... 146	Scotland Licensing	New Companies and	Scottish Notes 141
Social Echoes 150	Commission 157	Company News .. 143	Sporting Events 144
Business Changes ... 143	A Disappointment . 157	News of the Week .. 139	Summer Outings ... 144
Correspondence:—	Photographic Sales	Pharmaceutical	Topical Reflections . 141
Letters 166	After Closing	Society of Northern	Trade Marks 154
Dispensing Notes . 168	Time 157	Ireland:—	Trade Notes 155
Legal Queries 168	Fairness of Price	Council Meeting .. 145	Trade Report 162
Miscellaneous	Protection 158	Statistics 145	Wills 158
Inquiries 168			

News of the Week

Clinical Trials of New Remedies

The Medical Research Council announce that they have appointed a Therapeutic Trials Committee, as follows, to advise and assist them in arranging for properly controlled clinical tests of new products that seem likely, on experimental grounds, to have value in the treatment of disease:—Professor T. R. Elliott, M.D. (Chairman), Sir E. Farquhar Buzzard, Bt., Dr. H. H. Dale, Lord Dawson of Penn, Professor A. W. M. Ellis, M.D., Professor F. R. Fraser, M.D., Sir John Parsons, D.Sc., Dr. J. A. Ryle, Sir John W. Thomson-Walker, F.R.C.S., Mr. Wilfred Trotter, F.R.C.S., Professor D. P. D. Wilkie, Ch.M., Dr. F. H. K. Green (secretary).

Conditions have been the subject of discussion and agreement between the Medical Research Council and the Association of British Chemical Manufacturers, under which the Therapeutic Trials Committee will be prepared to consider applications by commercial firms for the examination of new products, submitted with the available experimental evidence of their value. The Committee will work in close touch also with the existing Chemotherapy Committee. The reports upon the results will be published under the authority of the Committee.

Grocers' Proprietary Articles Association

The Central Committee of the Grocers' Proprietary Articles Association met recently. The secretary's report contained the following passage:—"The single-shop trader now lacks the opportunity to secure supplies in face of the attitude adopted by so many manufacturers and wholesalers in refusing to fill orders unless assured that correct selling prices will be observed. Recent complaints indicate the main danger arises, not from isolated violations of fixed minimum prices, but from the operations of the better known cutters who run busi-

nesses in different areas under varying titles, and who have exceptional facilities for the collection and distribution of supplies. That these are finding it increasingly difficult to replace depleted stocks is evidenced by their having to resort to the subterfuge of ordering supplies under assumed names to be delivered to private addresses, frequently far removed from their actual business premises. With many of these even, a change is noticeable in that gradually several well-known proprietary lines are being eliminated, and unbranded lines being substituted for the better-known. It may be but a passing phase at the moment, but it does indicate that the 'big' cutters do not live in a perpetual glorious summer. The disappearance from the London area of a number of shops, noted particularly for the drastic cutting of confectionery prices, may possibly have raised doubts in the mind of many cutters as to the economic soundness of price cutting, and suggested, at least, a temporary marking of time."

Liverpool

A recent social meeting of the North Staffordshire Branch of the Pharmaceutical Society included a visit to the works of Ayrton, Saunders & Co., Ltd. After a tour of the laboratories in Duke Street and a visit to the Hanover Street building, the party was entertained by the company to dinner at the Exchange Hotel. At the conclusion of the dinner a welcome was extended on behalf of Messrs. Ayrton, Saunders by Mr. Harold Nixon (chairman of directors). Mr. Clement Shaw (chairman of the Branch) proposed a vote of thanks, to which Mr. A. E. Lea replied. A steamer trip to the Mersey Estuary afforded a visit to New Brighton and enabled the return journey to be made via Chester.

The Lord Mayor of Liverpool (Alderman Edwin Thompson) and the Lady Mayoress recently entertained the staffs of Thompson & Capper Wholesale, Ltd., of

which Alderman Thompson is governing director, and the Manchester and Liverpool staffs of United Photographers, Ltd., to a reception and dance at the Town



Hall. The accompanying photograph shows the staffs of the two companies.

At Liverpool, on July 28, the coroner concluded an inquest on the body of Elizabeth Scowcroft, wife of a labourer, who died in hospital from jaundice. Professor W. H. Roberts, city analyst, stated in evidence that the deceased had been taking atophan. "From time to time," he added, "this drug has poisonous symptoms, and jaundice is one of the distinguishing symptoms. It is not usually prescribed to be taken day after day. It is taken and then stopped. The disease Mrs. Scowcroft died from might have very likely been set up by the drug." In summing up the coroner observed that people should temper their kindness with a little intelligence, and realise that one cannot hand out these things to be taken as a meal. The jury

returned a verdict of "Death from misadventure due to poisoning by atophan," and added a rider that such drugs should be very carefully dispensed and given only under the strictest medical supervision.

Miscellaneous

PROPOSED DINNER.—It is proposed to hold a reunion and dinner during the coming winter months for those who served in the Anti-Gas Establishment, Royal Engineers. Old members are asked to write for particulars to Mr. H. W. Lucas, 42 Althorp Road, Wandsworth Common, London, S.W.17.

NEW BACHELORS OF PHARMACY.—The following have passed the recent examination for the Bachelor of Pharmacy degree of the University of London:—Chapman, Kathleen M.; Dale, H. N.; Davis, J. S.; Dewar, T.; Doctors, S.; Edyvean, E. R. C.; Freeman, J. A.; Goodall, Betty S.; Holder, E. J.; Jerome, N. St. C.; Lewis, Violet E.; Noble, H.; Roberts, J. C.; Stevens, Mary E.

THEFT.—In the early hours of July 24 a motor-car containing two men and two women stopped outside the premises of Mr. M. E. Thacker, Cricklewood Lane, London, N.W.2, wrenched a photographic machine from the shop front and drove off. Mr. Thacker was awakened by the noise, but was unable to ascertain the number of the car. The machine was afterwards found forced open and abandoned.

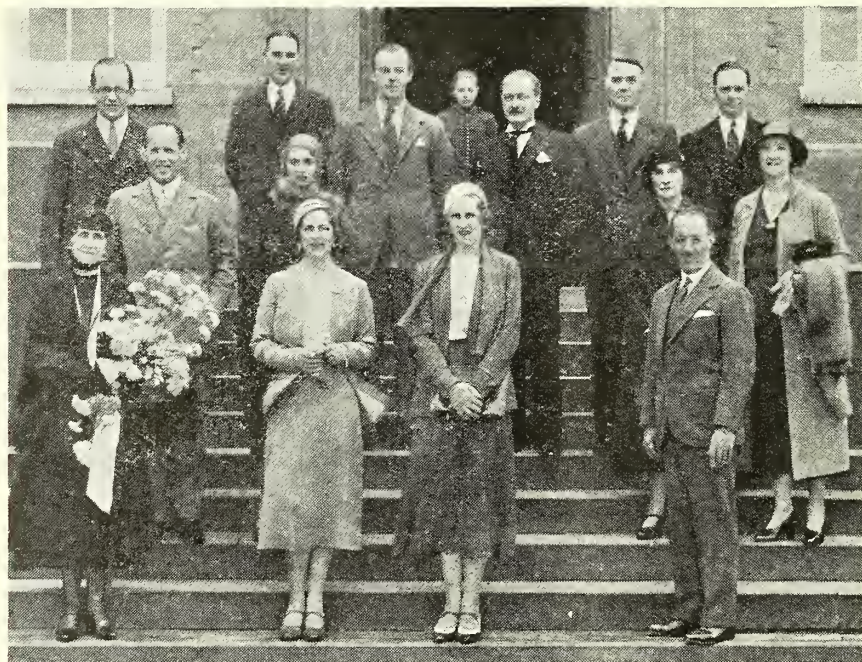
Irish Notes

Pharmaceutical Society of Ireland

The following are the results of the Licence examination of the Pharmaceutical Society of Ireland held recently:—*Passed with Honours.*—John Patrick Crowe, Michael Gerard Durcan. *Passed* (arranged according to merit).—Alice Maud Buttimer, (John Joseph C. Maguire, Augustine A. Hayes), (William Austin Ryan, Denis Daly), (Eileen Murphy, John Magnier), John Christopher Walshe, Kathleen Murphy, Patrick J. Lillis, Algernon William Hendy, (Annie Rebecca Maguire, Wilfred O'Donnell), John Smeaton Bennett, Eric Leopold Grubb, Denis John Murphy, John Leahy, Gerard Denis Golden, (Eugene McMahon, Bartholomew Patrick Hickey). Fifty candidates were rejected.

Sequel to an Inquest

Monaghan and Cavan Asylum Committee has received a letter from the Free State Local Government Department, enclosing the report of Dr. D. L. Kelly, Inspector of Mental Hospitals, on the sworn inquiry held by him into the circumstances attending the death of a patient named Francis Clerkin, by lysol poisoning (*C. & D.*, February 14, p. 168). The letter added:—"The Minister desires to state that he is much concerned at the fact that considerable laxity exists on the part of the medical staff in regard to the supervision of the storage and issue of



DISTINGUISHED VISITORS AT THE WORKS OF HORLICK'S MALTED MILK CO., LTD., SLOUGH, ON JULY 27

Front row (left to right): The Queen Dowager of Greece, Princess Helene of Roumania, Princess Irene of Greece, Mr. O. P. Horlick.
Second row (left to right): King George of Greece, Princess Katherine of Greece, Madame Christina Costy, Mrs. J. N. Horlick.
Third row (left to right): Prince Paul of Greece and Denmark, Mr. F. A. Kilby (works manager), Mr. P. Horlick, Mr. H. W. Weathersbee (sales manager), Dr. C. R. Williams, Mr. C. J. Harrison (publicity manager).

medicines. For instance, a large quantity of crude carbolic acid, an exceptionally powerful poison, was found by the inspector in a medicine press in a bottle which was not of the usual poison type. When the very highly poisonous nature of this drug is realised it should be apparent that grave danger is incurred by storing it in a medicine press in an ordinary bottle, and the failure of the medical officers to take steps to secure its safe custody must be regarded as a grave dereliction of duty. Again, the lysol is issued by the painter in unlabelled bottles to the charge attendants, who keep it in their respective stores. The bottles are exactly similar to those which contain black draught, and in the absence of a specially distinctive label it would be difficult to identify the contents. A supply of appropriate bottles for poisonous medicines should at once be procured, and all poisons should be issued under the supervision of a responsible official with a knowledge of drugs."

Brevities

Mr. Harold Nelson, R.D., has taken over the pharmacy of Mr. Richard Green, Ph.C., Bow Street, Lisburn.

A deed of arrangement has been executed by Frederick C. Williamson and Agnes Louise Williamson, trading as J. Williamson, druggists, 167 Cromac Street, Belfast. Unsecured liabilities are £1,160, and estimated net assets, after deducting secured claims, amount to £330.

Mr. T. H. McMullan, chemist and druggist, who is in business in Queensland, Australia, has just completed a nine-months' visit to the old country and the Continent with his wife. Prior to emigrating twenty years ago, Mr. McMullan served with chemists in Athlone, Londonderry, Bristol and London. He established a business in Atherton, Queensland, and in due course opened a number of branch shops.

Scottish Notes

Brevities

A correspondent writes:—"While the need for discrimination in buying becomes daily more apparent, the spate of travellers becomes greater."

The address of Dr. George Coull was, by a regrettable oversight, wrongly printed in the list of Conference visitors in our issue of July 25. The town should, of course, have been Leith.

The following are applying for licences to sell agricultural and horticultural poisons under Section 2 of the Poisons and Pharmacy Act, 1908:—William Addison, ironmonger, Stewart Place, Kilmacollm; John Hunt, managing director of Hunt & Thyne, Ltd., seed merchants, 8 Union Street, Dundee; William S. Youngson, in the employment of the above firm; and George Buchan, in the employment of W. P. Laird & Sinclair, Ltd., seed merchants, 13 Nethergate, Dundee.

Topical Reflections

By Xrayer

Mr. Franklin's Address

as chairman of the British Pharmaceutical Conference (*C. & D.*, July 25, p. 92), commends itself because of its originality no less than because of the appropriateness of its subject in the setting provided by the great industrial centre where the meeting was held. One would have liked to listen to a crystallised statement of the author's views on practical pharmacy, the subject he has accustomed us to regard as being peculiarly his own; but presumably he may consider that those views are expressed sufficiently in the records of his work, from which we may be left to draw our own conclusions. As it is, I should imagine Mr. Franklin was gratified that the communications to the Science Session of the Conference included so considerable a proportion of what one may term purely pharmaceutical papers, such as are likely to interest and instruct all of us who take a pride in our profession and are not content to sell and dispense ready-made physic about the production of which we know little or nothing.

Is Scottish Pharmacy,

by which I mean the profession thereof, on a much higher level than its English equivalent? One of your correspondents writes to say that continued perusal of the *C. & D.* correspondence columns makes him realise that such is the case (p. 88), and that the problems of pharmacy in Scotland are likewise different from those which present themselves for solution in Southern Britain. So much for the forcefulness of your correspondence pages. Apart from that, some of your readers would doubtless wish to know to what extent Scottish pharmacists, or perhaps I ought to say pharmacists in Scotland, are nearer the attainment of the ideal referred to by your correspondent, and what exactly is meant in the northern kingdom by the phrase "pharmacy for the pharmacist." If the term were strictly defined and the case for regarding the profession of pharmacy as being on a higher level in

Scotland than in England could then be set forth in detail, I feel sure that not only English readers of the *C. & D.*, but also Welsh ones and Scottish pharmacists domiciled in England and Wales, would appreciate the effort, whether or not they profited by the stimulation to join in attaining to a higher level.

From Wallasey

has emanated a suggestion that panel chemists anywhere should be permitted to dispense medicines for insured persons living in any area, whether or not the chemists happen to have entered into contracts with the Insurance Committee for the particular area (*C. & D.*, July 11, p. 52). For what are undoubtedly good and sufficient reasons, the R.P.U. Executive did not approve of the suggestion; but one of your correspondents last week (p. 135) reverts to the subject and appears to think a different decision might not unreasonably have been arrived at. He overlooks the point that the Wallasey Pharmaceutical Committee was in error in assuming that the National Insurance Formulary has been generally adopted throughout England and Wales. As a matter of fact, I understand that purely local formularies still remain in use in a number of areas, so that uniformity in prescribing cannot prevail to the extent that would justify the proposed arrangement. I am also disposed to think that "All Scripts" is under-estimating the difficulty that would be involved in balancing accounts between the different Insurance Committees. Possibly the Ministry of Health might rather favour the idea that it would be simpler to abolish the county areas, scrap the control by local committees, and have all N.H.I. scripts sent up to one pricing office. This would hardly be likely to appeal to chemists in the long run, and I venture to suggest that it is preferable for chemists to go on the panel for any area from which business may come to them. As regards odd prescriptions from outlying areas, if these be dispensed to oblige customers who are far from home and then sent on to the appropriate Insurance Committee with any necessary explanation, I should expect to find that payment would follow in due course.

Legal Reports

Action for Injunction Fails.—In the Chancery Division of the High Court, London, on July 28, Mr. Justice Eve delivered judgment in an action (heard on July 23) by A. P. Lundberg & Sons, Ltd., Liverpool Road, N., against Letrik, Ltd., Milton Street, E.C., for an injunction restraining infringement of trade mark and passing off as and for the plaintiffs' goods by the use of the word "Letrik," and restraining the defendants from trading in connection with electric goods under the name Letrik, Ltd., or any similar name so as to cause confusion. Mr. P. S. Bevan, for the plaintiffs, said they made and sold electric plugs, sockets and switches under the name "Lektrik," but they had also made parts for use with hairdressing appliances, including switches for the "Eugene" hair wave and the "Vactric" hair drill. They claimed that the use of the word "Letrik" was an infringement and likely to mislead the trade and public. Mr. R. Moodey, K.C., for the defendants, denied both infringement and passing off. He said there could be no passing off, as the goods sold by the defendants were not analogous to those of the plaintiffs. He was moving for the exclusion from the classes for which the plaintiffs were included in the Register of Trade Marks of certain entries of the plaintiffs'. Evidence was called. Mr. Atkinson, the defendants' managing director, said that 95 per cent. of their goods were sold in chemists' shops. In his judgment his lordship said the only claim by the plaintiffs to intercourse with the hairdressing profession was the selling of accessories to certain well-known professors of the art of hair-waving. No allegation was made that the defendants had any fraudulent intent in using the name "Letrik," and as far as was known no mistake had arisen among their customers as between the plaintiffs' and the defendants' goods. The two marks were not identical. The plaintiffs had never manufactured combs, their mark being used in connection with goods of a wholly different character. There was no competition between the two classes of goods, and in his opinion the use of the defendants' mark could not be said to constitute an infringement. He held that they had no cause of action, and he dismissed the action with costs. The hearing of the defendants' motion for a declaration that the plaintiffs' mark did not extend to electric combs and goods of a like character was postponed to July 29, when the motion was mentioned to his lordship. Mr. Burrell, for the defendants, said that as the result of a discussion the plaintiffs had agreed not to contest the defendants' right to an order in the terms of the motion, and would pay the Registrar's costs, while the plaintiffs would not ask for the costs of the motion.

Injunctions Granted.—In the High Court, Dublin, on July 22, before Mr. Justice Johnston, in the case of Day, Son & Hewitt, Ltd., manufacturers of veterinary medicines, Dorset Street, London, W.1, against Mr. James Joseph Murray, Ph.C., Nenagh, co. Tipperary, Mr. John H. S. Russell applied, on behalf of the plaintiff company, for an order for an injunction to restrain the defendant, his servants and agents from infringing the plaintiffs' trade mark "Red Drench." Counsel said it was a motion in default of defence. Counsel read from the statement of claim, which set out that the following were the acts of infringement complained of:—(a) Using the trade mark and get-up of the plaintiffs' goods in such a manner as to be calculated to induce the public to believe that the infringing goods are the goods of the plaintiffs. (b) Using the trade mark and get-up of the plaintiffs' goods in such a way that the public is likely to be deceived thereby, for the goods were sold in an ordinary fair manner. (c) Describing the infringing goods by the trade name of the plaintiffs. (d) Selling the infringing goods in answer to orders in which the trade name of the plaintiffs' goods has been used. Counsel said the plaintiffs did not ask for an account or damages, or any further inquiries, or for any other relief. They only asked for an injunction to restrain the defendant from infringing their trade mark. Mr.

Art O'Connor, who appeared for the defendant, said his client was prepared to submit to an order in the terms of the prayer in the statement of claim. He wished, however, to point out that the infringement of the plaintiffs' trade mark was due to the fact that the manufacturers of another cattle medicine or drench made up in the same style as the plaintiffs' drench, and supplied it to him and other people in that district. Mr. Justice Johnston: That means that there is no moral blame attached? Mr. O'Connor: Yes. Mr. Justice Johnston: But apparently there is a legal responsibility. An order was made granting the injunction asked for and directing that the defendant should pay the costs.

In a second action of the same plaintiffs against Mr. John Vaughan, Ph.C., Nenagh, counsel said the statement of claim was identical with that in the other case. Mr. Art O'Connor: I appear for the defendant in this case, and I repeat the remarks that I made in the other case. It was unintentional. Mr. Justice Johnston: You are going to bring some proceedings in the nature of a claim for damages for breach of warranty? Mr. O'Connor: Not as at present advised. Mr. Justice Johnston made an order against Mr. Vaughan in similar terms to those of the order against Mr. Murray.

A Dentist's Title.—In the Chancery Division of the High Court, London, on July 21 and 22, before Mr. Justice Farwell, the British Dental Association, through the Attorney-General, asked for an injunction to restrain Mr. Wilfred Henry Weeks, Prince of Wales Road, Norwich, from using in connection with his premises or his profession the title or description "dental surgeon." Mr. Gavin Simonds, K.C., and Mr. H. G. Robertson appeared for the Association; Mr. Alexander Grant, K.C., and Mr. Butterfield were for Mr. Weeks.

THE PLAINTIFFS' CASE

Mr. Simonds explained that the question was whether Mr. Weeks was entitled to describe himself as a dental surgeon. He was registered in the Dentists' Register set up in 1921, but possessed no other professional status or qualification; at any rate, none other was entered in the Register. His name was included in the Register by virtue of the fact that before 1921, for several years, he had practised dentistry as his principal means of livelihood. But the fact that a dentist got on the Register because of his previous experience, but without examination, did not allow him to call himself a dental surgeon. He could call himself dentist or dental practitioner. There were 6,858 dentists on the Register who got there because of their experience before 1921, and, as far as the plaintiff Association knew, Mr. Weeks was the only one who called himself a dental surgeon. Counsel submitted that the defendant used a title or description which was calculated to suggest that he had a professional qualification and status which in fact he did not possess.

Sir Francis Acland, chairman of the Dental Board, said his Board never authorised any dentist who came on the Register because of the 1921 Act to call himself a dental surgeon. In his opinion "dental surgeon" suggested a person with a degree or diploma, with the exception of a very limited class under the 1878 Act, who, he believed, used that description. Mr. Grant (cross-examining): And with regard to those in that class they may have no degree or diploma?—Yes, that is so. Sir Norman Godfrey Bennett, dental surgeon, Brook Street, W.1, said he thought some of the 1878 dentists called themselves surgeon dentists and not dental surgeons. Colonel Norman King (registrar of the Dental Board of the United Kingdom) and other witnesses gave similar evidence.

CASE FOR THE DEFENCE

Giving evidence for the defence, Mr. Fred Butterfield, secretary of the Incorporated Dental Society, which was formed in 1911 to protect the interests of unregistered dentists, said his uncle was what was known as an "1878 man," who called himself a dental surgeon or surgeon dentist. Many dentists who were registered under the 1878 Act called themselves "dental surgeons." He had found that fifteen dentists of the 1878 class were members of the plaintiff Association and used the style

"dental surgeon" or "surgeon dentist" without having a degree. The style "dental surgeon" conveyed nothing more to him, unless it had coupled with it the degrees the dentist had, than that the person in question practised dentistry. Mr. Butterfield gave the Court a list of ten dentists who were on the 1921 Register and called themselves dental surgeons. Mr. Phelps, Alexander Road, Upper Norwood, said he was registered under the 1878 Act and called himself "dental surgeon." Mr. P. W. Raffan, who was a member of Parliament when the 1921 Act was passed, said he was of opinion that the use of the style "dental surgeon" suggested that the user practised dentistry and was registered; it did not imply that the user had a degree. Mr. A. McLean Maxwell, late editor of the "Greenock Herald," and other witnesses gave similar evidence.

ARGUMENTS AND JUDGMENT

Mr. Grant contended that the man in the street, who after all was the person who mattered, and who had no special knowledge, saw no indication in the words "dental surgeon" that the user had a diploma or degree. The Association failed lamentably, because they admitted that the 1878 Act dentists, who were allowed to use the title "dental surgeon," had used it for years without having either degrees or diplomas. Mr. Simonds said that the description "dental surgeon" meant either the 1878 Act dentists or those having diplomas and degrees. Those men had status or qualification. Mr. Weeks was in neither of those classes.

Giving judgment, Mr. Justice Farwell said the Act of 1878, for the first time, required persons who called themselves dentists, or by any such name, to be registered if they wanted to have the right to sue in a court of law for their fees. Many of those persons, some of whom called themselves "dental surgeons" or "surgeon dentists," registered. But the Act did not force every dentist to be registered. On the Register, however, were dentists by virtue of registration or degree, and nowadays there were still living many of those persons who were registered and called themselves "surgeon dentists" or "dental surgeons." The number was dwindling. The 1921 Act prohibited the practice of dentistry by any person not registered, and on the Register came all those who had practised for a specific time before 1921 and who satisfied the Board that they were qualified to practise. There was a considerable number of members of the public to whom the words "dental surgeon" conveyed nothing; on the other hand there was also a great volume of the general public to whom the words carried a particular meaning. They meant a person who had a degree or diploma or had been registered by the Act of 1878. The Act of 1921 only allowed persons qualified by degree or the 1878 Act to call themselves dental surgeons, and it did not afford that privilege to those who were registered by virtue of Section 3. Among that latter class was Mr. Weeks, and by using the style he had done something that was calculated to suggest that he had a status or qualification which in fact he did not possess. His lordship added that he could decide the case upon the reading of the Act without having regard to the evidence that had been offered, but his conclusion was supported by the evidence given. The plaintiffs were entitled to the declaration and injunction asked for, with costs. His lordship granted a stay of execution.

Business Changes

MR. FREDERICK ALAN ROBINSON, son of the late Mr. Richard Robinson, has joined the board of Meade-King, Robinson & Co., Ltd., oil, fat and tallow merchants, Tower Building, 22 Water Street, Liverpool.

THE firm of S. N. De, M.Sc. (Botany), B.Sc. (Geology), importers and exporters, 160/1A Baitakkhana Road, Calcutta, has been converted into a private limited company under the style of S. N. De, M.Sc. (Botany), Ltd.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

EVAN JONES (CHEMISTS), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of consulting and pharmaceutical and general chemists, herbalists and seedsmen, drug merchants, etc. Solicitor: P. P. Jones, 31 Rutland Street, Swansea.

JOHN OTLEY, LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of chemists and druggists, photographic dealers, etc., carried on by the executors of J. Otley, deceased, at 32 Murray Street, Filey, as the "Executors of the late John Otley." Solicitors: Lambert & Parkinson, Bridlington.

CITY MINERAL WATER CO., LTD. (P.C.).—Capital £4,000. Objects: To acquire the business of a mineral water manufacturer, etc., carried on by W. H. Petters at 81 and 110 Gloucester Place, Low Hill, Liverpool, as the "City Mineral Water Company." Solicitors: Edwin Berry & Co., 37 Moorfields, Liverpool.

SCHOFIELD BROS. (LIVERPOOL), LTD. (P.C.).—Capital £20,000. Objects: To adopt an agreement with S. Schofield for the purchase of the business of an aerated and mineral water manufacturer carried on by S. Schofield at 19 and 21 Dalrymple Street, Liverpool, as "Schofield Bros." R.O.: 21 Dalrymple Street, Liverpool.

PEROKLEAN, LTD. (P.C.).—Capital £750. Objects: To adopt an agreement with Perolin, Ltd., to acquire the business referred to therein, including the use of the trade marks for Peroklean, and to carry on the business of manufacturers of and dealers in cleansers, chemicals, dyes, soap, cleansing and disinfecting compounds, etc. R.O.: 25 Broadway Buildings, Westminster, S.W.1.

DRUG INCORPORATED.—Lord Trent, of Nottingham, chairman Boots Pure Drug Co., Ltd., has been elected a director of Drug Incorporated.

Bankruptcy Reports

Re William Vernon Cooper, Lowgate, Sutton-on-Hull, drug store proprietor, lately carrying on business at 96, Hessle Road. Public examination at Hull Bankruptcy Court, on July 20. Liabilities amounted to £193 with no assets. Failure attributed to insufficient business. The examination was closed.

Re Thomas Ifor Roberts, 17A Bridge Road, Blundell-sands, Lancs., chemist and druggist.—The public examination was to have been held on July 28, at the Court House, Government Buildings, Victoria Street, Liverpool, but the debtor did not appear. The Official Receiver stated that on April 16 last he had gone away, without leaving any address. Since his disappearance his wife had carried on the business. The examination was adjourned *sine die*.

Re John Blamey, Glaschorrie, Barnwood Road, Gloucester, lately of Stonehouse, Gloucestershire, chemist and druggist.—The first meeting of creditors was held recently, at the Official Receiver's offices, 26 Baldwin Street, Bristol. The statement of affairs presented showed liabilities of £1,392 2s. 1d., and a deficiency of £1,388 7s. 8d. The Official Receiver stated that the debtor commenced business in July 1896 as a chemist and druggist at Falmouth. He traded there until 1917, when he sold the business and served in the Army until January 1919. He subsequently managed chemists' businesses in Stroud and Gloucester, purchasing the latter business in 1921. The debtor attributed his failure to want of capital, heavy overhead expenses, and living expenses exceeding income. The case was left in the hands of the Official Receiver as trustee.

Sporting Events

THE Northumberland and Durham Chemists' Golf Association met in competition on July 15 for the Evans Lescher cup. Play took place on the City of Newcastle Course, Gosforth, in fine weather. Twenty-two members took out cards against bogey, and the leading results were as follows:—J. H. Potts (West Hartlepool), handicap 15, 2 up; A. Walker (Wallsend), handicap 11, 1 down; H. Rutter (Gateshead), handicap 18, 2 down; E. H. Hopper (Newcastle), handicap 18, 3 down. Mr. Dixon (representative of Evans Sons Lescher & Webb, Ltd.), presented the cup to Mr. Potts.

THE monthly competition of the Birmingham Pharmaceutical Association (golf section) was held recently over the Sutton Coldfield course. There was a good entry. The trophy was the Southall challenge cup, this being the second year it has been played for under medal play conditions. (The cup was illustrated in the *C. & D.*, February 7, p. 146.) Ideal weather prevailed and some remarkable golf resulted, although the course was a difficult one with a bogey of 77. Mr. T. Varley secured the cup with a score of 75-8=67. Mr. Martin was runner-up with 94-22=72, the prize being golf balls presented by Virol, Ltd., who also gave golf balls for the best score of handicaps 16 and over; Mr. Burton was the winner with 94-22=72. The ladies' souvenir spoon was won by Mrs. A. B. Price with a score of 97-28=69. The competitors were entertained to tea by the donors of the cup, Southall Brothers & Barclay, Ltd., who were suitably thanked by the chairman (Mr. Price); Mr. E. D. Barclay acknowledged the vote of thanks.

THE London Chemists' Golfing Society held a meeting at the West Surrey Golf Club recently to compete for the Burgoyne cup. The weather, after a poor start, improved, and the course was in excellent condition. The leading scores were as follows:—

M. W. Carmichael	...	...	86-9=77
E. A. Geddes	...	...	88-11=77
C. A. Harrod	...	...	90-11=79
D. J. Parry	...	...	95-15=80
A. W. Daniel	...	...	90-7=83
R. A. Daniel	...	...	87-4=83

After a replay E. A. Geddes won the cup. In the afternoon a foursome against bogey was played for the Thomson cup, and the Gibbs' prize. The leading scores were as follows:—

W. E. Cane & D. J. Parry	...	all square
C. Hughes & P. O. Royle	...	1 down
W. Main & E. A. Geddes	...	2 down
A. W. Daniel & R. A. Daniel	...	2 down

W. E. Cane won the Gibbs' prize and D. J. Parry the Thomson cup.

Summer Outings

Staff Outings

THE employees of the Tottenham establishment of Savory & Moore (1928), Ltd., participated in an outing on July 4. The party proceeded by charabancs to the Black Rabbit at Arundel, where lunch was served, and later continued to Littlehampton.

A PARTY of 140 employees of Ernest Jackson & Co., Ltd., Crediton, proceeded by charabancs to Weymouth on June 27. Lunch was served at 1.30 p.m. at the Clinton Restaurant. During the afternoon the party indulged in various pleasurable activities, including boating, bathing, etc. The return journey was by way of Dorchester, Crewkerne and Honiton.

ABOUT sixty members of the staff of William Ransom & Son, Ltd., manufacturing chemists, Hitchin, and friends spent a day at Yarmouth recently. The party

started early in the morning by train, and at Yarmouth were met by the vice-chairman of the Club, Mr. Richard Ransom. Tea was taken at the Grosvenor Hotel, where Mr. J. H. Stott, who is one of the directors as well as the chairman of the Social Club, made an appropriate speech.

FINE weather favoured the recent annual outing of the staff of Stone & Son, Ltd., chemists, Exeter. Proceeding by way of Dulverton and Dunster, the party, which was in charge of the managing director (Mr. J. F. Fleetcroft), journeyed to Minehead where lunch was served. At lunch Mr. E. G. Lang (chairman of directors), Mrs. Stone (director) and Mr. Fleetcroft expressed the company's thanks to the staff for the efforts made during the year to further the interests of the firm. Messrs. J. J. Brewer and H. S. Beazley replied. Lynmouth and Lynton were also visited.

THE combined Bristol and Exeter staffs of Evans, Gadd & Co., Ltd., manufacturing chemists, Exeter, held their annual summer outing on July 4. Leaving their respective West-country bases at 7.30 a.m., the parties travelled by road to Bournemouth, where luncheon was served at the Grand Hotel. Mr. W. A. Cornish (secretary for the outing) proposed the health and prosperity of the company, to which replies were made by Mr. W. J. Wippell (chairman of the directors) and Messrs. H. Wippell Gadd, F. Southerden and W. T. Symes (directors). The afternoon was spent in testing the entertainment resources of Bournemouth under unsettled weather conditions, and the two houses separated for the return journey at 6 p.m.

Association Meetings

Edinburgh.—The fourth botanical excursion of the summer session of the Edinburgh Chemists' Assistants' and Apprentices' Association took place on July 15, when a large company visited the herb garden of Duncan, Flockhart & Co. The weather was fine and the herb garden was showing to advantage in spite of the abnormally wet season. The company was divided into two parties, one being taken by Mr. W. A. Beattie and the other by the president (Mr. J. J. Blackie). The effective explanation of the many interesting plants found in the garden was followed with keen interest by the members. On the motion of Mr. Eric Knott, a cordial vote of thanks was awarded to Duncan, Flockhart & Co., for the privilege of visiting the garden, and to Messrs. Beattie and Blackie, who conducted the excursion. In the Association's prize competitions for the session, the following awards have been made:—*Dey Pharmacy Prize* (value £1 1s.), Tom W. Allison, Keswick. *Ewing Prize in Theoretical Pharmacy*, first prize (value £1 1s.), William R. Mackay, pupil of H. B. Wyllie, Edinburgh; second prize (value 10s. 6d.), Aulay MacKinnon, pupil of W. Topping, Edinburgh. *McDonald Prize in Elementary Theoretical Pharmacy*, first prize (value £1 1s.), Frank Hepburn, pupil of Thomas Girdwood, Edinburgh; second prize (value 15s.), E. Herd, pupil of Archibald Currie, Leith; third prize (value 6s.), Mary E. Johnstone, pupil of D. F. Johnstone, Melrose. *Cumming Prize in Practical Pharmacy*, first prize (value £1 1s.), F. H. Denton, pupil of S. Ewart, Whitley Bay; second prize (value 10s. 6d.), W. Macdonald, pupil of G. Morrison, Inverness.

West Ham.—The West Ham and Eastern District Association of Pharmacists and Branch of the Pharmaceutical Society held a garden fête and sale at Deepdene, Woodford (by kind permission of Mr. and Mrs. W. J. Beardsley) on July 2. The function, which was organised on behalf of the Society's Benevolent and Orphan Funds, proved a great success. Mrs. Beardsley, with the help of a Ladies' Committee, arranged the stalls and competitions. The function also proved a financial success, realising £55 towards the funds.

Pharmaceutical Society of Northern Ireland

Council Meeting

THE monthly meeting of the Council was held on July 17 in the Society's rooms, Scottish Provident Buildings, Belfast, the president (Mr. S. S. Badger) in the chair. There were also present:—Messrs. James Dundee (vice-president), R. I. Edwards, J. C. Culbert, W. J. Hardy, H. Todd, F. Storey, J. F. Grimes, H. McRoberts, S. Gibson, Professor Small, Dr. Fielden and Sir Thomas McMullan. Mr. D. L. Kirkpatrick (secretary) was in attendance.

THE PRESIDENT said he had learned with pleasure that one of their licentiates, Mr. Alex Hardy, son of their colleague, Mr. W. J. Hardy, had passed the Spectacle Makers' examination and supplementary examination in London. He proposed that the Society send him their congratulations, and this was agreed to.

MR. DUNDEE said they should consider putting up an examination of their own in optics.

THE PRESIDENT said it was an excellent idea.

MR. STOREY said they had no power to do so.

After discussion the matter was eventually sent to the Education Committee.

THE SOCIETY'S EXAMINATIONS

The reports of the Board of Examiners and the Special Board of Examiners in the recent examinations were read. The results showed that out of eighty-five candidates in the various classes only five passed. None of the thirty-five candidates in the Preliminary Scientific passed, and in Section 2 Part IV, out of twenty-eight candidates, two passed.

MR. STOREY said there was surely something radically wrong somewhere. He thought there should be an investigation into the cause of the casualties, and that the whole matter should be referred to the Education Committee. He moved accordingly.

MR. HARDY seconded, and said he wanted a committee, not only for the teaching but for the examining. There was something wrong with both and also with the conditions leading up to the examinations.

The resolution was passed.

MR. TODD raised the case of a candidate who had failed in pharmacy, but had passed in it at a previous examination. The candidate had asked to be allowed credit for the pass in pharmacy instead of having to come up for it again.

THE PRESIDENT said that the question had already been discussed by the examiners, who said if a man went up in two subjects, and improved, they would allow him to hold on, but where he did not improve they could not do so.

After further discussion the reports were read.

The pharmacy examiners, Dr. Fielden and Mr. Theo. Harper, M.P.S., stated that the standard in pharmacy was very mediocre. None of the candidates could in any sense be described as outstanding, the highest percentage obtained in practical pharmacy being 75. The oral examinations failed in many instances to improve their opinion of the character of the work of many of the candidates, who, as a whole, were lacking in general experience and seemed to have presented themselves for examination much too soon. One or more years' thorough training in practical compounding would have been of sound advantage to most of them.

MR. H. GRAHAM, chemistry examiner, reported that in all branches of work the standard was very low. From the results of the examinations it was evident that a considerable number of candidates were deficient in the most elementary knowledge of the subject and should not have been allowed to sit for the examinations. He suggested that the standard of the preliminary examination be raised to that of matriculation. In Part II knowledge of the theory of organic chemistry was very limited.

Professor Emeleus reported that the general standard of the candidates in physics was not good. The general impression was that the candidates had covered the necessary ground, but that the majority had either not a proper appreciation of what they had been taught or, possibly,

had had insufficient practice in writing out answers to questions.

Professor Small reported that in pharmacognosy the answers showed a clear tendency on the part of the students to memorise certain points about the prescribed drugs instead of learning all they could about the subject. In botany the answering all over was distinctly below the Senior Grade standard.

MR. F. G. WALSH reported that in the business methods paper the standard of answering all over was practically the same as at the December examinations, but five candidates failed to obtain pass marks and showed little evidence of having given the subject the study it deserved.

The secretary reported that the following had passed the Pharmaceutical Preliminary examination:—Messrs. Joseph Anderson, Robert B. Boyle, Victor Grattan, W. B. Hewitt, Maurice J. McHenry, John G. McWilliams, Jas. Maginnis, Samuel Orr, Alfred M. Stevenson and Thos. J. Traynor. There were, he said, thirty-four candidates, and ten had passed.

The following nominated candidates were elected members of the Society:—Robert Joseph West MacKenna, 23 Ferguson Drive, Belfast; John Murray Glass, 1 Belfast Road, Bangor, co. Down; James Gerard McCutney, 2 Woodhouse Street, Portadown; and Robert M'Cutcheon, 69 Main Street, Bangor.

Annual Statistics

The following memorandum on pharmacy administration for year ended December 31, 1930, was sent by the Ministry of Home Affairs for Northern Ireland to the Pharmaceutical Society for Northern Ireland:—

REGISTRATION

The number of names on the Registers on December 31, 1930, was as follows:—

Pharmaceutical chemists	729
Superintendents of bodies corporate (Ph.C.)	47
Chemists and druggists	13
Registered druggists	149
Certified assistants	6
Apprentices	357

On December 31, 1930, the number of registered druggists, assistants and apprentices who had become qualified as pharmaceutical chemists and registered as such was:—

Chemists and druggists	1
Registered druggists	162
Assistants	11
Apprentices	105

ISSUE OF ANNUAL LICENCES

The number of licences issued for the year ended December 31, 1930, was as follows:—

Pharmaceutical chemists	389
Chemists and druggists	4
Registered druggists	78

These figures, compared with those given in the previous memorandum in respect of the year ended August 31, 1929, show an increase of sixty-five in the number of pharmaceutical chemists; a decrease of one in those of the chemists and druggists; and a decrease of ten in the number of registered druggists' licences.

PHARMACY INSPECTOR

During the year under review the pharmacy inspector paid 921 visits of inspection to pharmaceutical chemists, chemists and druggists, and registered druggists. He paid 129 visits to agricultural poison licence holders; 143 visits to methylated spirit retailers other than pharmaceutical chemists, chemists and druggists and registered druggists, and 93 visits to traders suspected of selling poisons.

BRITISH PHARMACEUTICAL CONFERENCE

Closing Session

The closing session of the Conference was held at the Albert Hall, Manchester, on July 23, the chairman (Mr. J. H. Franklin) presiding. Among those present was Mr. William Kirkby, whose attendance on the platform at the opening session was, by a regrettable oversight, not mentioned in our issue of July 25.

The CHAIRMAN, who was greeted with cordial applause, opened the proceedings by calling on the senior general secretary to read the

REPORT OF THE EXECUTIVE

The report stated that the number of corresponding members is 111. Since the last annual meeting one new corresponding member has been elected and nineteen have retired. The Executive regrets to record the deaths since the last meeting of a well-known member of Conference, Mr. E. M. Holmes, who was a past-president, of Mr. W. H. Saunders, a corresponding member for many years, and of Mr. Richard Bremridge, a corresponding member of the Conference, and a former secretary and registrar of the Society, who was always greatly interested in the work of the Conference, and until the last two years regularly attended its meetings. The Executive has much pleasure in reporting the gift of a handsome chairman's gavel from the Cardiff Branch of the Society in memory of the meeting of the Conference in Cardiff last year.

During the year the attention of the Executive has been drawn to the fact that the Science Committee of the Council has not been reappointed, and the Executive has considered the desirability of re-establishing the Conference Research List, and of setting up a sub-committee to investigate the possibility of increasing the output of pharmaceutical research. Representatives have been appointed to meet representatives of the Council of the Society to discuss this question and other matters relating to it.

The Executive has considered a recommendation to alter the rules so that one or more ordinary members of the Executive may retire automatically at the end of a period of three years, and to admit the chairman of the North British Executive of the Pharmaceutical Society, the president of the Pharmaceutical Society of Ireland, the president of the Pharmaceutical Society of Northern Ireland, and the chairman of the Local Committee as members, *ex officio*, of the Executive Committee. With regard to the proposed alteration in Rule 4, the Executive has received notice that the Council of the Society passed the following resolution at its April meeting:—"Of the three members nominated annually by the Council to the British Pharmaceutical Conference Executive, the member having the longest period of continuous service shall be ineligible for renomination for one year." The following revision of Rule 4 is proposed:—

The officers of the Conference, who shall collectively constitute the Executive Committee, shall be: A chairman, vice-presidents, vice-chairmen, one honorary treasurer, two honorary general secretaries, together with three members of the Council of the Pharmaceutical Society and six other members, being members, honorary members, or corresponding members of the Conference. Of the six other members nominated annually by the outgoing Executive, the two members who have had the longest period of continuous service shall be ineligible for renomination for one year. The president of the Pharmaceutical Society shall be *ex officio* a member of the Executive Committee and president of the Conference. The chairman of the North British

Executive of the Pharmaceutical Society, the president of the Pharmaceutical Society of Ireland, the president of the Pharmaceutical Society of Northern Ireland, the chairman of the Local Committee and the honorary local secretary shall be *ex officio* members of the Executive Committee.

OFFICERS FOR 1931-32

The Executive submitted the following list of officers for the year 1931-22:—

Chairman.—Herbert Skinner.

Vice-Presidents.—Messrs. G. Claridge Druce, W. A. H. Naylor, Robert Wright, J. F. Tocher, F. Ransom, E. H. Farr, E. Saville Peck, David Hooper, W. Kirkby, C. A. Hill, and H. G. Greenish.

Vice-Chairmen.—Messrs. F. W. Gamble, D. Lloyd Howard, R. R. Bennett, J. T. Humphrey, and J. H. Franklin.

Hon. Secretaries.—C. E. Corfield and G. R. Boyes.

Hon. Treasurer.—F. W. Crossley Holland.

Members of the Executive.—Messrs. H. Berry, B. A. Bull, H. Brindle, C. H. Hampshire, T. E. Lescher, C. A. Noble, with Messrs. W. J. Beardsley, J. Keall, T. Marns (nominated by the Council of the Pharmaceutical Society), together with the following, *ex officio*:—

President (the president of the Pharmaceutical Society of Great Britain), the president of the Pharmaceutical Society of Northern Ireland, the chairman of the North British Executive of the Pharmaceutical Society, the chairman of the Local Committee, and the honorary local secretary.

The PRESIDENT (Mr. A. R. Melhuish) moved the adoption of the report, paying as he did so a tribute to the energetic secretary, Mr. Corfield, and his colleague, Mr. Boyes. The setting up of a subcommittee for the promotion of pharmaceutical research was a wise step. He welcomed the distinguished visitors present, among whom were the presidents of the two Pharmaceutical Societies of Ireland.

The VICE-PRESIDENT (Mr. F. G. Hines), in seconding, congratulated the chairman on his new gavel. The report was adopted.

TREASURER'S REPORT

The report of the treasurer (Dr. F. W. Crossley Holland) showed that the income from subscriptions paid by corresponding members was £68 19s. 6d. On the expenditure side of the account the general expenses of the Conference were £165 os. 7d. These figures were included in the Pharmaceutical Society's financial statement presented at the Society's annual meeting in May of this year. The total amount expended is 13s. 11d. less than the expenditure of the previous year. Apart from the figures to which reference has just been made, the Conference account shows a balance in hand of £60 5s. 5d. The balance in hand in the previous year was £321 15s. 8d., or a sum exceeding the present balance in hand by £261 10s. 3d. The Conference Executive decided to transfer the sum of £200 from deposit account to current account, and to contribute £258 towards the cost of producing a long overdue and much-needed general index to the Year-Book of Pharmacy from 1904 to 1927 inclusive. The decision to proceed with the preparation of the index received considerable impetus from a contribution towards the cost, of the handsome sum of £100, most generously contributed by a former chairman of Conference, and for many years its treasurer—Mr. David Lloyd Howard. It is fitting to mention the service of Mr. F. H. Newman in connection with the preparation of the general index.

BRITISH PHARMACEUTICAL CONFERENCE · 1931 ·

The PRESIDENT, in moving the adoption of the report, congratulated the treasurer on having spent 13s. 11d. less than in the previous year. (Laughter.)

The VICE-PRESIDENT seconded, and the report was adopted.

ALTERATION OF RULE 4

Mr. MALLINSON moved the alteration of Rule 4 in accordance with the suggestion in the Executive's report.

Mr. LINSTAD seconded, and the change was put to the meeting by the chairman and approved.

ELECTION OF OFFICERS

Mr. ALAN FRANCIS moved the election of the officers suggested by the Executive, pointing out that every name in the list was well known in the history of pharmacy. Mr. Skinner would prove to be a most popular chairman. Mr. Francis expressed the general satisfaction that Mr. Franklin had borne the stress of this Conference so well; all the members had felt anxious for him and for Mrs. Franklin, and they were glad to see him in the chair at the close of the Conference.

Mr. CULBERT (Glasgow) briefly seconded the motion.

The CHAIRMAN, in putting it to the vote, pointed out that it included two new names, those of Messrs. Bull and Brindle, which was as it should be. The motion was carried unanimously.

INVITATION FOR 1932

Mr. W. F. HAY invited the Conference to visit Aberdeen next year, incidentally remarking that he had been chosen to support a similar invitation in 1907, since which year there had been great changes in the *personnel* and the size of the Conference. In spite of the general depression, the Aberdeen members would do their utmost to welcome the Conference. In that city the people were comparatively poor, and visitors might be asked to send money in advance. (Laughter). Aberdeen was accessible, and was in the forefront educationally. Its Pharmaceutical Association with continuous records from 1830 was practically the mother of the Pharmaceutical Society. Among its chief industries were granite, shipbuilding, fishing, distilling and a joke factory. (Laughter.)

Mr. C. SIMPSON, in seconding, said he was proud of his city, which ministered to æsthetic tastes.

Mr. D. J. NUGENT (president of the Pharmaceutical Society of Ireland) proposed the acceptance of the invitation, remarking in the course of a humorous speech that friendships would be made at Aberdeen.

Mr. S. J. BADGER (president of the Pharmaceutical Society of Northern Ireland) seconded, adding that he always carried a corkscrew. (Laughter.)

The CHAIRMAN, in putting the motion, said that Aberdeen was a most beautiful city. The motion was carried unanimously.

PRESENTATION OF BOOKS

The PRESIDENT asked the local Branch of the Society to accept a gift of books from the Bell and Hills fund.

Mr. SIMMONS acknowledged the gift on behalf of the Branch. He pointed out that the Manchester Pharmaceutical Association had a library, recently overhauled, where the books would probably be deposited. A book of stories culled from a Conference would be a useful addition to such libraries. (Laughter.)

VOTE OF THANKS TO THE CHAIRMAN

Dr. HAMPSHIRE proposed a vote of thanks to the chairman. Mr. Franklin, he remarked, had presented the Conference with scientific papers of the greatest value; and so long as they had men of his type, the Conference would progress. It was particularly appropriate that he should preside this year. He had had the

satisfaction of seeing the Conference go through in spite of his illness, owing largely to the help of the gracious and charming lady who supported his efforts. Dr. Hampshire added that he admired the way in which Mr. Franklin handled his duties in connection with Pharmacopœia revision. They trusted that he would speedily be restored to complete health.

Mr. R. R. BENNETT, in seconding, said this was not a mere formal vote of thanks, but a vote expressing affection and great appreciation. It was a recognition of one who for many years had been a leader in pharmacy. In honouring Mr. Franklin the Conference honoured itself. He was symbolical of all that was best in pharmacy, and had always had the greatest faith in his profession. This had been a very delightful week in Manchester; everyone would long remember the charm of Mr. and Mrs. Franklin.

The CHAIRMAN, who received an ovation, said in reply that he had looked forward to the Conference on this occasion as never before. In spite of recent illness he had got through safely, and he thanked the members for their kindness. He took the opportunity of greeting visitors from Australia who had looked in at some of the meetings. He asked Mr. Skinner, who would make an admirable chairman, to say a few words.

Mr. SKINNER, in returning thanks for his election to the chair, said he had held most positions in pharmacy. The chairmanship of the Conference was one of the highest honours. The progress of the Conference was the progress of pharmacy; there was something in the Conference that focused attention on things that help in business. Mr. Skinner added a cordial tribute to Mr. Franklin.

The CHAIRMAN then declared the business of the Conference closed.

The Chairman's Retrospect

SIR,—I should be grateful if you could allow me a little space in your valuable paper to express my heartfelt gratitude for the great kindness shown to me and my wife by everyone during Conference week. That immense kindness will ever be treasured by me, and my one regret is that owing to indisposition I did not see so much of my old friends as I would like to have done; but I hope that they will give me the privilege of seeing them next year at the Aberdeen Conference.

Yours faithfully,

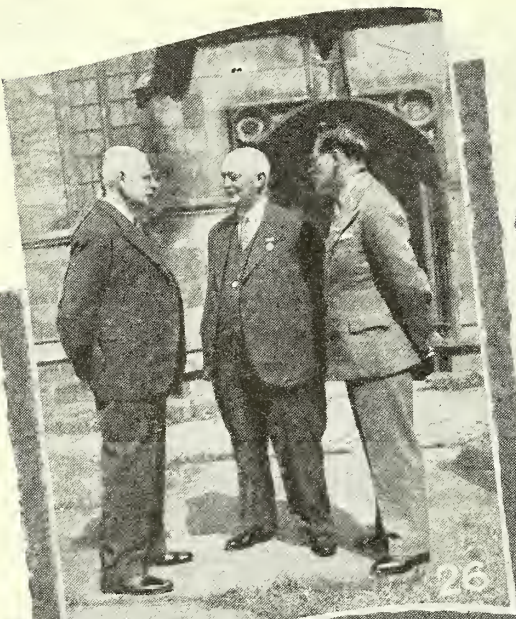
J. H. FRANKLIN.

Higher Broughton.



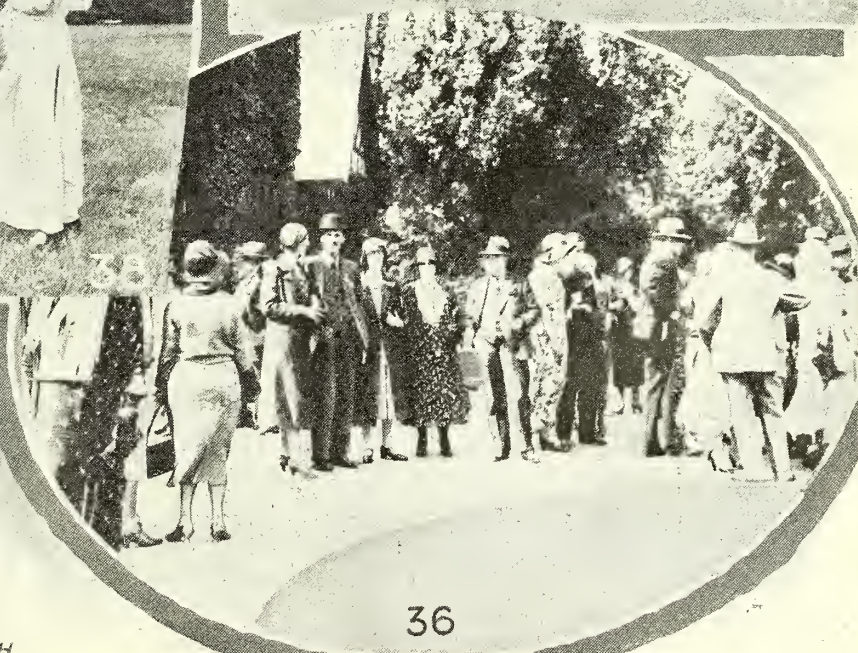
Left to right: MR. FEWSTER, MR. MASKELL, MR. HASELGROVE (taken on Sports Day)

CONFERENCE PICTURES



PHOTOS BY JOHN CLEWORTH.

MANCHESTER 1931



BRITISH PHARMACEUTICAL CONFERENCE

Social Echoes

The principal excursion of the Conference, which followed the closing session, had been arranged with perfect judgment, with the result that the ten motor-coaches and their precious freight traversed the steep Derbyshire roads without mishap. Going through Didsbury, Cheadle and Stockport the main road was soon left, and the party had its first glimpse of the beautiful Derbyshire hills. The route was so recently described in the *C. & D.* that it will suffice to mention a few of the better-known beauty spots passed on the route, names which will long evoke happy memories in those who were fortunate enough to participate in this excursion. By the time that Chapel-en-le-Frith was reached the magnificent Peak district, with its bold hills and its grouse moor, was seen at close range. The old marketplace of Chapel-en-le-Frith still has its whipping-post and stocks. Other features of the ride were the beautiful parish church of Tideswell, sometimes called the Cathedral of the Peak, Chatsworth and its noble park with the historic hunting tower half hidden among the trees, the winding course of the Wye, Haddon Hall, the ancient town of Bakewell and Ashford-in-the-Waters, at the last-named of which the party began to encounter water of the descending order—lasting, however, only for a time.

* * * *

On arrival at Buxton the party entered the Spa Gardens, where they were joined at tea by the Mayor (Mr. George Howe) and several local pharmacists, among whom were Alderman Pugh (an ex-Mayor), Mr. Salt, Mr. and Miss Pilkington and Mr. Abbott. After tea the chairman of the Conference, in a few felicitous sentences, eulogised the charms of Buxton as a health resort. The Mayor, in a humorous speech, added further facts to the same effect, and assured the party that they could not choose a better place for their holidays. Everyone regretted that Mr. Robert Wright, a vice-president of the Conference, was not well enough to be present. The party next visited the Baths, where they were shown round in small groups by the Mayor, Dr. Chorlton, Dr. Harburn, Dr. Hill, Dr. Holt and Dr. Potter, and viewed with much interest the up-to-date methods of treatment provided. Several of those present took the opportunity of making inquiries at Mr. Wright's house and leaving wishes for his speedy recovery. At last the signal for the return was given, and reluctantly the visitors "encoached" for the homeward journey.

* * * *

Thursday evenings at the Conference usually mark a feeling of relief for officials and committees and a certain sadness for the ordinary visitor. The cabaret and dance this year was a more than usually joyous affair, in which no dissentient note was heard. Dancing began at 8.30 p.m., and just before supper Mr. Herbert Skinner and Mr. A. R. Melhuish paid eloquent tribute to the excellence of the arrangements made and so quietly and efficiently carried out by the local committees. This was acknowledged by the local chairman (Mr. E. H. Simmons), who said his entire team had worked so well that he could not possibly apportion special praise to anyone. He therefore merely indicated the chairman and secretary of each committee, and left it at that. He seemed to lay special emphasis, however, on the services of the publications committee (of which Mr. John R. Goldthorpe was secretary), of the ladies' committee (presided over by Mrs. E. J. Woolley), and of Councillor Edwards and Mr. Miller.

Silver cigarette boxes were presented as souvenirs to Mr. Edwards and to Mr. Miller, a beautiful bouquet of roses to Mrs. Woolley, and baskets of fruits to Mrs. Edwards and to Mrs. Miller. Before dancing was resumed, a delightful exhibition of operatic dancing was given by Madame Haines and half a dozen of her pupils. All of the dances were enthusiastically applauded.

* * * *

The ladies at this year's Conference were particularly fortunate in the number and variety of their tours, undertaken while the men-folk were engaged in discussing science or business. In addition to the excursions referred to in our last week's issue, they paid a delight-



ful visit to the John Rylands Library on the opening day of the session under the watchful eye of Mr. Miller. Dr. Henry Guppy gave the party a brief descriptive talk, and showed several of the treasures for which the Library is famed all over the world. These books and manuscripts included six Caxtons, a Wycliffe testament used by Queen Elizabeth, a manuscript of Richard II's cook, and tablets from Babylonia. Mr. Fewster expressed the gratitude of the party to Dr. Guppy. It is probably uncertain how many presents the ladies received during the Conference, but at any rate we heard of gifts of bath salts from Cussons, Sons & Co., Ltd. (to say nothing of shaving soap for the men), and the arrival of boxes of handkerchiefs from the ladies' committee. We show the handsome vase of bath salts.

* * * *

These notes would be very incomplete without a reference to the energising activities of Mrs. E. J. Woolley, chairman of the ladies' committee and (as most people know) chairman of the directors of the House of Woolley. It was obvious that Mrs. Woolley had succeeded in securing from all with whom she worked for the Conference a real affection. She attended practically all the functions, and obviously enjoyed meeting people from all parts of the country.

BRITISH PHARMACEUTICAL CONFERENCE · 1931 ·

On the morning of sports day the weather was at first not at all pleasant. Unfortunately, too, the Scottish contingent had to go away early, which meant the abandonment of the Scotland v. England bowling match. However, about 10.15 a start was made. A gathering of about sixty sat down in due course to an excellent lunch, during which the sun appeared. The lunch over, and speeches being taboo, the various sections (golf, tennis, bowls and putting), went to their various quarters. Heaton Park golf course is a stiff test of a golfer's skill and endurance. Before the tennis competitors commenced the official photographer (Mr. John Cleworth) took a photograph, after which the tennis courts were a scene of activity. Quite a score of ladies visited the putting green, many entering for the competition. A number of well-known golfers were also seen trying their hand. The fun many of the visitors got out of the game was astonishing. An incident probably unique in the history of the Conference occurred during the afternoon, over 6,000 children, organised by "The White Heather Camp Fund," marching past to an entertainment.

On the bowling green a match between Australia and Scotland took place, the contestants being Mr. P. F. J. Gray (Australia) and Mr. Roderick Smith (Stornaway). The other game of bowls, Mr. Scholes v. Mr. Milner, looked at one time like a runaway, Mr. Milner being 7 to Mr. Scholes 0; then gradually Mr. Scholes brought the game to 7 all, and after a keenly contested game, Mr. J. Milner ran out the winner. Unfortunately, Mr. Gray, after getting in the semi-final of the knock-out (bowls) competition, had to leave early. In the golf competition for the Edmund White trophy, the conditions were at first bad, but some of the scores were very creditable, Mr. A. Maude winning with a score of 78. Mr. J. G. Twigg was close behind with 80. The other prize-winners were:—*Tennis (Doubles)*—(1), Miss K. Breese, Mr. D. Dickson, jun.; (2), Dr. Dorothy Simmons, Mr. E. Beard. *Putting (Ladies)*—(1), Mrs. Black; (2), Mrs. Aves; *(Gentlemen)*—(1), Mr. W. Gray; (2), Mr. W. E. Phillipson. *Golf (Ladies)*—Mrs. W. McCutcheon and Miss Freeman (equal).

The smoking concert following the Sports Day is not infrequently a scratch affair; but at Manchester it was far otherwise. Although many of the long-distance visitors had departed homewards, an unusual number had lingered behind this year. And they were well rewarded, for the entertainment was of an exceptionally high order, and the most interesting thing about it was that almost all the artists were pure pharmaceutical products. Mr. Franklin presided over a gathering of nearly 200, and had beside him Mrs. Franklin, bearing a beautiful bouquet of pink carnations, which was presented to her on entering. The president of the Pharmaceutical Society and Mrs. Melhuish were present, as were also Mrs. E. J. Woolley, Mr. Skinner, Mr. and Mrs. Simmons, and other prominent Conference officials.

The entertainment did not end until midnight, and (to the delight of everyone) Mr. Franklin led off the finale by singing a verse of the National Anthem in a voice as strong and sweet as of yore.

The musical programme was as follows:—

Pianoforte solo, "Polka de la Reine" (Raff). Mrs. O. L. Fewster.
Bass song, "I'm a Roamer" (Mendelssohn). Mr. Kenneth Stafford.
Mr. Graham Adams, conjuror.
Soprano song, "Arise, O Sun" (Maud C. Day). Miss Doris Hill.
Cello solo, "Lullaby" (Ernest Claude). Mr. Granville Shaw (Mr. Walsham at the piano).
Tenor song, "Roses" (Stephen Adams). Mr. Frank Brecknell.
Mr. Herbert Leeming, entertainer.
Presentation of sports prizes by Mrs. J. H. Franklin.

Interval.

Pianoforte Solo, Waltz in A flat (Chopin), Mrs. O. L. Fewster.

Duets, (a) "The Two Gendarmes" (b) "The Moon hath Raised." Messrs. Frank Brecknell and Kenneth Stafford.

Soprano songs, (a) "The Birthday" (Cower) (b) "My Hero" "The Chocolate Soldier" (Strauss), Miss Doris Hill.

Mr. Herbert Leeming, entertainer.

Cello solo, "Le Cygne" (Saint-Saens), Mr. Granville Shaw (Mr. Walsham at the piano).

Bass song "In Sheltered Vale," Mr. Kenneth Stafford.

Mr. Graham Adams, conjuror.

Tenor songs, (a) "Sea Raptures" (Eric Coates) (b) "Looking for You" (Sanderson), Mr. Frank Brecknell.

Accompanist, Mrs. O. L. Fewster.

Musical director, Mr. O. L. Fewster.

Mr. Melhuish proposed a hearty vote of thanks to the artists, and made special mention of the delightful manner in which Mrs. Fewster had performed her duties. Mr. Skinner proposed a vote of thanks to the chairman in a charming little speech. In replying, Mr. Franklin mentioned incidentally the unobtrusive work Mr. Kenneth Stafford had done in assisting Mr. Goldthorpe on the publications committee, and directed attention to the pencil drawings done by Mr. Stafford for the Conference handbook—the originals of which were on view.

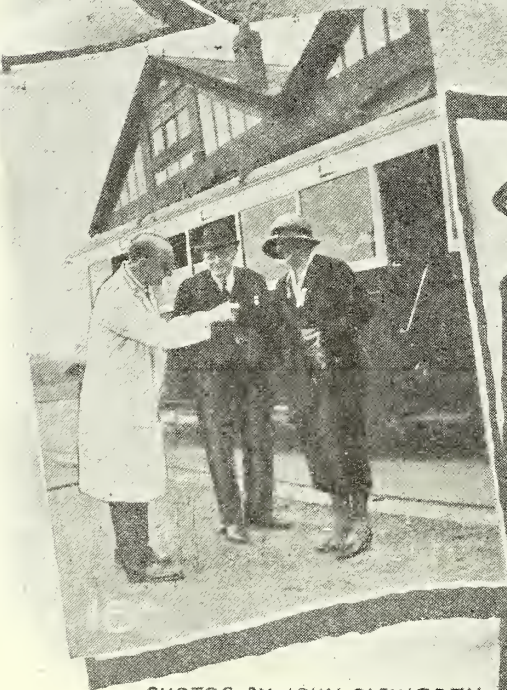
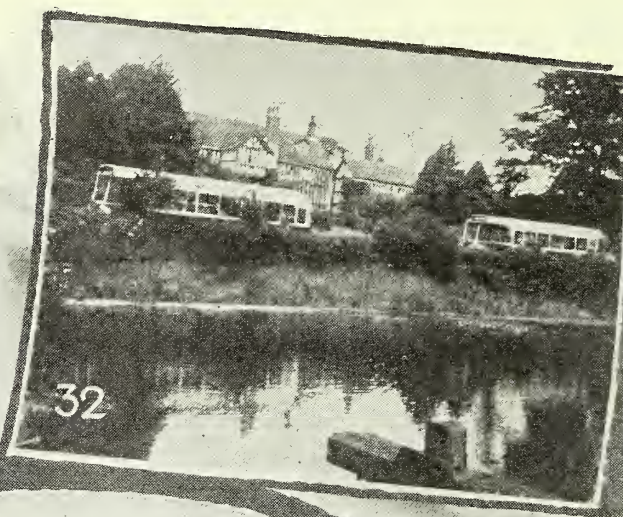
It may be remembered that in addition to the C. & D. Manchester representatives thus honoured by the chairman, another contributor to the programme, Mr. Granville Shaw, is well known by reason of his clever cartoons appearing from time to time in our pages. We were happy in being able to devote more preliminary space than usual to this year's Conference and associated topics, and in contributing a supply of handbooks of Thursday's excursion route.

On the closing day of the Conference a small party visited the rooms of the Literary and Philosophical Society, and duly examined the Dalton relics to which reference has already been made. The courteous help of the curator and secretary was much appreciated.

Mr. Cleworth's Photographs

The following is a list of photographs taken by Mr. John Cleworth in connection with this meeting of the Conference:—

1. Flashlight photograph of presentation at the Town Hall on July 30.
2. Flashlight photograph of the platform at the opening session in the Albert Hall.
3. Group of sightseers. Left to right; Messrs. Ridley, Trick, Weir, Hay, Simpson.
4. Mr. Ridley and Mr. Trick.
5. Mr. Simmons and Mr. Brewis.
6. Mr. Simpson, Mr. Weir and Mr. Hay.
7. The Lord Mayor arriving at the opening session accompanied by the local secretary (Councillor R. G. Edwards) and Mrs. Edwards.
8. Ladies leaving the Albert Hall after the opening session.
9. Group of visitors leaving the Albert Hall after the opening session.
10. Mr. Simmons, Councillor Edwards and the president outside the Albert Hall.
11. Mr. and Mrs. H. Humphreys Jones and Mr. and Mrs. F. Storey.
12. Messrs. Wild, Blain, F. W. Bates, J.P., Clubb, Simmons, H. Humphreys Jones (left to right).
13. Mr. Skinner, Mr. Lecher and Mr. Mams.
14. One of the three parties shown round McVitie & Price's works.
15. Group at McVitie & Price's.
16. Group at McVitie & Price's.
- 16a. Left to right: Mr. Shaw, Alderman Percy Knott and Mrs. Edwards.



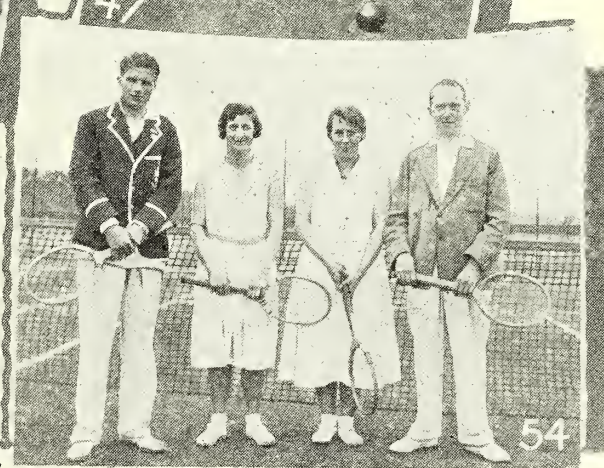
B.P.C.
MANCHESTER, 1931



PHOTOS BY JOHN CLEWORTH



**CONFERENCE
SPORTS
MANCHESTER
1931**



PHOTOS BY
JOHN CLEWORTH.

BRITISH PHARMACEUTICAL CONFERENCE · 1931 ·

17. See No. 16a.
18. *Group of visitors at the works of Cussons, Sons & Co., Ltd.*
19. Visitors going through the gardens at Messrs. Cussons's works.
20. A view of Messrs. Cussons's works showing flags out in honour of the Conference visitors.
21. Another view of the same works.
22. Ladies' motor tour to Gawsworth; motor-coaches making a halt at Prestbury.
23. At Prestbury Church.
26. *Left to right: Mr. Franklin (chairman of the Conference), Mr. F. P. J. Gray (Australia) and Mr. Arthur Mortimer (London). (24 and 25 are other snapshots of the same people.)*
27. Visitors entering Gawsworth Vicarage.
28. *At Wythenshawe Hall: Mr. and Mrs. Franklin and Mr. Connor in foreground.*
29. Miss Purdie and Messrs. Connor, Lewis, Miller, Flint.
30. Messrs. Eastwood, Eastwood, jun., Franklin, Stabler and R. Smith.
31. Mr. Franklin, Mr. Connor, Mrs. Williams (Bath) and Mrs. Sprott.
32. *The lake at Gawsworth.*
33. Mr. D. Lloyd Howard (right) and Mr. T. Edward Lescher.
34. *Messrs. Ware, Grier, Brindle and Wallis.*
35. *Well-known Conference visitors entering Wythenshawe Hall.*
36. *Group outside Wythenshawe Hall.*
37. Leaving the coaches and entering the hall.
38. *Snapping the president.*
39. On their way to the gardens at Wythenshawe.
40. *Dr. Coull, Mr. Chapman, Mrs. Carus and Mr. Rowsell at the garden party (right to left).*
41. *Mrs. Franklin and Mr. Alan Francis at the garden party.*
- 41a. *Left to right: Messrs. Ridley, Hardy, Guthrie and an artist.*
42. *The president.*
- 42a. *Left to right: Mr. Mallinson, Mr. Keall, Mrs. Keall, the president, Mr. C. A. Noble.*
43. *The ten motor-coaches halt at one of the highest points on the route to Buxton, near Tideswell.*
44. Mr. Stabler (chairman of transport committee) and Mr. Lewis (secretary of transport committee) at Buxton.
45. The Gardens at Buxton.
46. The Gardens at Buxton, showing the Pavilion.
47. *Mr. Smith (Stornoway) and Mr. Gray (Australia) resort to the measure in a bowling match. Mr. Beedle is measuring.*
48. *On the Golf Course, showing (left to right) Mr. Collins, Mr. Wells and Mr. Maude in the competition for the Edmund White trophy.*
49. *Mr. Scholes (left) congratulating Mr. Milner on having won the first prize in the bowling handicap. The marker, Mr. Beedle, in the centre.*
50. *Colonel Watson (right) and Mr. Swanston adding up their scores in the golf competition.*
51. Mrs. Franklin and Mrs. Melhuish on the putting green.
52. *Four of the ladies amused by their scoring cards.*
53. *Tennis competitors.*
54. *Winners of the first and second prizes in the tennis doubles.*
55. *Left to right: Mr. Noble, Miss Hayes, Mrs. Freke, Mr. Prior (Mayor of Stamford).*
56. Miss Nuttall (left) and Mrs. Pollock in the golf competition.
57. *Four members of the Sports Organisation Committee. Left to right: Messrs. Aves, Edwards, Miller, Breese.*
58. On their way to be photographed at Wythenshawe.
59. Part of the group preparing to be taken.
60. *Left to right: Messrs. Ridley, Tocher, Skinner, Beardsley, Corfield.*

Those reproduced in this or the preceding issue are indicated by italic type. Copies of the photographs may be obtained at 1s. each (by post 1s. 2d.) from the official Conference photographer, Mr. John Cleworth, 56 Ducie Street, Oxford Road, Manchester.



Left to right: MR. SKINNER (chairman, 1931-32), MR. LESCHER, MR. MARNS

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1931, p. 345.

(From "The Trade Marks Journal," July 8, 1931.)

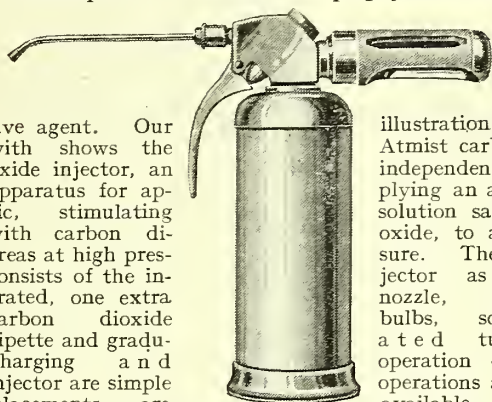
- "TRICOPLAST"; for surgical plasters (3). By P. Beiersdorf & Co., A. G., 38-42 Eidelstedterweg, Hamburg, 30, Germany. 520,108.
- "DOLS"; on design of planet and electric spark; for medicated flannel and articles made of same (3). By Dols' Volatalise Flannel, Ltd., 81 Viaduct Street, Huddersfield. 520,655.
- "CALBISNATE"; for medicinal chemicals (3). By William R. Warner & Co., Inc., 113 West 18th Street, New York, U.S.A. 521,892.
- "BOYSAL"; for a medicated preparation for gout, etc. (3). By H. G. Boyce, 28 Canwick Road, Lincoln. 521,977.
- "CARFORET"; for medicinal chemicals (3). By Carter & Sons (Sheffield), Ltd., 335 Attercliffe Road, Sheffield. 522,392.
- "LIFEGUARD"; for medicinal chemicals (3). By Ernest Jackson & Co., Ltd., 28a and 29 High Street, Crediton, Devonshire. 523,542.
- "RED STAR"; for perfumes (48). By Johann M. F. G. D. Jülichs-Platz, Gegenüber dem Jülichs-Platz, Cologne, Germany. 518,354.

(From "The Trade Marks Journal," July 15, 1931.)

- "CRUSADER"; for all goods (1). By Glasso Manufacturing Co., 209 City Road, London, E.C.1. 523,357.
- "SYOLAPON"; for chemicals (1). By The Sandoz Chemical Co., Ltd., 152 Canal Road, Bradford, Yorkshire. 523,384.
- "VULCABOND"; for chemicals (1). By British Dyestuffs Corporation, Ltd., Hexagon House, Blackley, Manchester. 523,633. (Associated.)
- "RED STAR CATTLE DRENCH" with design of star surrounded by six smaller stars; for medicine (2). By Southall Brothers & Barclay, Ltd., Alum Rock Road, Saltley, Birmingham. 523,096. (Associated.)
- "VEMMEL"; for disinfectant powder (2). By G. W. Clarke, 41 Farringdon Road, London, E.C.1. 515,502.
- "CHOCOSAN"; for medicinal chemicals (3) and for chocolate, etc. (42). By A. F. C. Fabrik, Verksgaten 28, Oslo, Norway. 523,062; 521,385. (Associated.)
- "HEALTH SALT, RHEUMATISM & LIVER SALT" on design incorporating domed pavilion ("Health" disclaimed); for salines (3). By The Harrogate Tablet Co., Ltd., Chatsworth Grove, Harrogate. 520,120.
- "VEL-VEE-TOX"; for ointment (3). By V. J. Gilbert, Moundsmere, The Oval, Benton, Newcastle-upon-Tyne. 522,832.
- "DLACQUIN, DLISQUE, and DSHERRI"; for perfumery, etc. (48). By Clement Black & Co., 12 Little Regent Street, Sydney, Australia. 522,193/4/5.
- "VELHANDO"; for perfumery, etc., excluding soap (48). By P. Robinson, Mining Lane House, 59 Eastcheap, London, E.C.3. 521,204.

Trade Notes

CARBON DIOXIDE is becoming increasingly recognised in dental practice as an efficient prophylactic and cura-



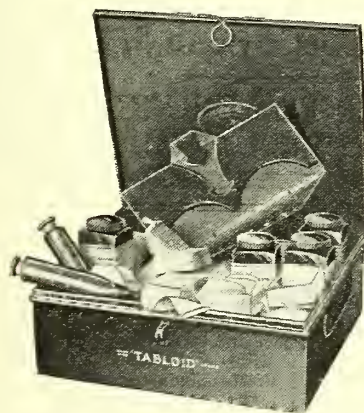
tive agent. Our with shows the oxide injector, an apparatus for ap-
tic, stimulating with carbon di-
areas at high pres-
consists of the in-
trated, one extra
carbon dioxide
pipette and gradu-
Charging and
injector are simple
placements are
of our subscribers who are interested in dental supply
may obtain full particulars from the sole agents, Cottrell
& Co., dental dépôt, 15-17 Charlotte Street, London,
W.1.

NEW AGENTS.—J. C. Richardson & Co., Ltd., manu-
facturing chemists, Didcot, have appointed Remy &
Lecoq, Pharmacie Commerciale, Place Clichy, Paris,
sole agents for the sale of their Preventative for Sore
Shins and other veterinary preparations in France.

BANK HOLIDAY.—The works of John Bell & Croyden
(Savory & Moore, Ltd.), Lawrence Road, London,
N.15, will be closed from Saturday noon to Tuesday
morning. (Day and night service will be maintained
at 50-52 Wigmore Street, London, W.1., for all urgent
orders).

EASTERN FOAM.—The British Drug Houses, Ltd.,
Graham Street, City Road, London, N.1, call attention,
elsewhere in this issue, to an advertising campaign offer-
ing the new Lucky Elephant beautifiers to users of
Eastern Foam. Chemists are invited to write for show
material.

SHADFORTH PRESCRIPTION SERVICE, LTD., 63 Grove
Road, Bow, London, E.3, remind chemists, in our ad-
vertisement pages, that the many Shadforth products
may be obtained through the usual trade channels.
Chemists' receipts are accepted in the free book offer
which is being nationally advertised.



THE ACCOM-
PANYING PHOTO-
GRAPH shows the
first-aid equip-
ment carried by
Sir Alan Cob-
ham on his recent
20,000-miles flight
round Africa. A
second flight to
that continent, for
survey purposes,
was commenced
on July 22, when
Sir Alan Cobham
again included in
his outfit Tabloid
Medicine Case No.
244, supplied by
Burroughs Well-
come & Co., Snow
Hill Buildings,
London, E.C.1.

DOG MEDICINES.—Bob Martin, Ltd., dog medicine
manufacturers, Southport, offer to send display material
to chemists on application. Full particulars will be
found in our advertisement pages.

Deaths

BLACK.—At a nursing home, on July 24, suddenly,
Margaret Hamilton Bowie, beloved wife of Mr. David
Black, M.P.S., 15 Onslow Drive, Dennistoun, Glasgow.

BYRNE.—Recently, Mr. Walter Byrne, 38 Siloh Road,
Landore, Swansea, a representative of Burdall's, Ltd.,
manufacturing chemists, 214 Gibraltar Street, Sheffield,
aged thirty-two.

COLLARD.—At 17 Beaumont Crescent, West Ken-
sington, London, W.14, on July 18, after long suffering,
Mr. Henry E. Collard, for many years the highly-
esteemed friend and representative of Newball & Mason,
Ltd., manufacturing chemists, Nottingham.

DUNCAN.—In London, on July 16, Mr. James Green-
hill Duncan, chemist and druggist, aged fifty-six.

JOHNSTON.—At 23 St. Lawrence Road, Brixton,
London, S.W.9, on July 23, Sarah, the beloved wife of
Mr. William Johnston, Ph.C., former secretary of the
Chemists' Defence Association, aged seventy-five.
Interred at Norwood Cemetery, July 28.

MAWSON.—At Station Road, Eaglescliffe, on July 24,
Mary Gladys, beloved wife of Mr. S. T. Mawson, M.P.S.

MORRIS.—At Belfast, on July 24, the widow of the
late Mr. Abraham Morris, Ph.C., Ravenhill Road.

SCOTT.—At Bodmin, recently, Mr. Thomas Scott,
retired chemist and druggist, aged eighty-five. Mr.
Scott carried on business at Plymouth and Bodmin for
a long period. He is survived by two daughters.

STEWART.—At 82 Ashcroft Drive, King's Park, Glas-
gow, on July 13, Mr. Peter Stewart, chemist and drug-
gist, aged twenty-seven.

Personalities

MR. E. A. BAILEY, chemist and druggist, Boston, has
been elected chairman of the Holland Insurance Com-
mittee, an office he has held previously.

MR. R. CECIL OWEN, B.Sc., has contributed to the
August issue of "Great Thoughts" a well-written
account of Harvey's research leading to the discovery of
the circulation of the blood.

MR. C. J. SPENCER (Spencer Brothers, perfumery manu-
facturers and exporters, 39-40 Shoe Lane, London,
E.C.4) sails from Liverpool on July 31 by the s.s.
"Duchess of Richmond" on a visit to Canada and the
United States.

MR. P. A. GRISTON, chemist and druggist (Oliver &
Griston, chemists, North Walsham), saved a young
woman who was in great danger of drowning on Barton
Broad, on July 26. He forgot to remove his horn-
rimmed spectacles before diving, but these retained
their hold and were not washed away.

MR. F. W. BURGESS, chemist and druggist, Preston
Drove, Brighton, has been installed the first Worshipful
Master of the Galen Lodge of Freemasons, the members
of which comprise chiefly doctors, dentists and chemists.
The immediate Past Master is Mr. L. Cameron, Ph.C.,
Seaford, and the Senior Deacon is Mr. H. J. W.
Inkpen, chemist and druggist, Church Road, Hove.

MR. R. S. JACKSON, F.C.S., F.A.C.S., M.P.S., has
been appointed to the Advisory Committee of the Indian
Auxiliary Force for the Bombay district for the ensuing
year. Mr. Jackson is a Lieutenant in the Y Division
(Bombay) Field Brigade, Royal Artillery, A.F.I. He
enlisted as a gunner in 1908. In that year he entered
the service of Kemp & Co., Ltd., pharmaceutical
chemists, Bombay, of which company he is now the
general manager.



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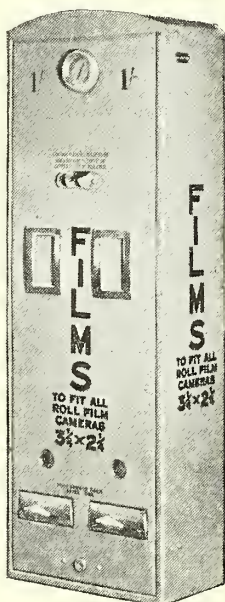
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Eighth Edition (1930).

Price, 7/6 net, by post 8/-.

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(New Edition, March 1931).

Price, 5/- net, by post 5/3.

THE CHEMIST AND DRUGGIST,
28 ESSEX STREET, LONDON, W.C.2

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

- | | |
|--|--------------------------------|
| W/217. A.C.E. bandages | M/217. Kaiserling |
| S/297. Bandaline compact dressings | E/297. Linda weed killer |
| E/297. Capt. Fielding's ointment | N/297. Myoston and Myol |
| L/297. Centitest litmus paper | B/297. Replen puffs |
| N/297. Dahl's lozenges (for dyspepsia) | M/217. Stenton's throat sprays |
| E/297. Henri's tar shampoos (not Phillipe Henri) | N/297. Sylva ointment |
| | G/297. Trifolax |
| | E/297. Zotoleine healing cream |

The CHEMIST AND DRUGGIST

VOL. CXV AUGUST 1, 1931 NO. 2686

The Scottish Licensing Commission and Chemists

THE Report of the Royal Commission on Licensing for Scotland, which has recently been published, contains, as was to be expected, matter of special interest to chemists and druggists. It is true that its recommendations extend only to the licensing law of Scotland, and so directly affect only those chemists whose business is in Scotland. At the same time, it may also be usefully looked at as giving an indication of the likely trend of opinion among the members of the Commission which is due to report within a short time on the English side of the licensing question. The Scottish Commission produces two reports—a majority report signed by the chairman and nine other members, and a minority report signed by four members of the Commission. The majority report recommends "that chemists should not be required to obtain either a retailer's certificate or an excise licence for the sale of medicated wines and spirits as defined in the British Pharmacopœia as issued from time to time." English readers may be informed that "certificate" is the name given in Scotland to what is known in England as a justices' licence. The report at the same time finds it necessary to emphasise the limitation put on the concession by adding a recommendation "that chemists not possessing a certificate and resulting excise licence should not be entitled to sell wines or spirituous beverages other than such preparations as appear in the British Pharmacopœia." The signatories of the minority report, who include some who are publicly identified with the extreme temperance programme, add a further recommendation that "the alcoholic content of medicated or tonic wines and proprietary articles should be stated on the label."

A Lead to the English Commission

Setting aside this latter because of its debatable character, the recommendations of the Commission on the whole are to be welcomed as a serious effort to bring the law with which they are concerned into harmony with the conditions of modern life. They represent more than would be implied in corresponding changes in the licensing law of England. Although in England, as in Scotland, there is no statutory exemption from the requirement of a justices' licence for the sale of medicated wine by retail, there is in our English licensing Act an express exemption in the case of medicated spirits or spirits made up in medicine and sold by medical practitioners or chemists and druggists. The Scottish licensing Act, on the other hand, makes no such provision. It is hardly conceivable, therefore, that the English Licensing Commission, when it comes to report, will do less than has been done by its

northern counterpart in recommending changes which should smooth out the angularity of our licensing laws. They would find themselves on secure ground if they boldly adopted the recommendations put before them by the official witnesses for the Commissioners of Customs and Excise, and accepted the view that the extra-statutory concessions made by the Commissioners should have the formal sanction of the law. This practice, they have been told, has for a long period worked satisfactorily "so far as concerns the safety of the revenue." Nor is there anything in the published minutes of evidence to support the assumption that it might have undesirable consequences in other directions.

A Disappointment

Some seven weeks ago when the Hoover proposal of a twelve months' moratorium of international war debts was first launched the markets accepted the scheme as a real ray of hope for better times. Not that it was looked upon as an important economic factor in itself, but its psychological effect was immediate, reviving hopes where previously widespread doubt and pessimism had prevailed. The step towards a restoration of confidence was reflected in the markets taking on quite a cheerful tone, and business began to move on a much better scale. Unfortunately the moratorium was not immediately adopted. There followed weeks of dreary international political argument, resulting in a patched up compromise. In the meantime the tide of confidence in the commercial world had ebbed and the improved conditions had given way to a return of the old feeling of insecurity and depression. Then followed the European financial crisis which did not improve matters and again there was prolonged political discussion before a none too satisfactory temporary solution to the problem was reached. The net result of the international political blunderings of the past seven weeks, so far as commerce is concerned, is that conditions are barely as satisfactory as they were prior to the publication of Mr. Hoover's well-intended proposal. The London markets concerned with the chemical trade are, of course, not so buoyant as was the case a few weeks ago, but the general tone keeps remarkably steady, and there is certainly no suggestion of a break. Business during August will no doubt be affected by the holiday season, and things will probably remain quiet till the early autumn. Given a period free from international political or financial crisis there is fair reason for anticipating some improvement both in the tone of the markets and the volume of business transacted during the concluding four months of this year.

Photographic Sales after Closing Time

As we reported in our issue of July 25 (p. 90) a chemist has been summoned for an alleged contravention of an Early Closing Order under the Shop Hours Acts. It appeared that he, with some forty other shopkeepers, had been selling photographic films after closing hours. When the inspector called on the chemist to buy a film and told him who he was, it seems from the report that the chemist produced a letter stated to have come from the solicitor to the Retail Pharmacists' Union advising him that he was entitled to sell films after closing time. The clerk then said that the notice required to be exhibited in the defendant's shop should have read, "This shop is closed for to-day except for the sale of medicines and surgical appliances and of photographic films by retail." We think this is apt to give a wrong impression to the trade. There has been no alteration in the Shop Hours Acts, nor in the exemptions: the

chemist is not entitled, as the Acts now stand, to sell after closing time anything in the nature of photographic films. It may be that he can supply to a customer a photographic film which has been bought during the proper opening hours, for the sale in that case took place when the order was given and the money changed hands, delivery not being necessarily sale. The chemist is still entitled to sell medicines or surgical appliances at any time, irrespective of the Shop Hours Acts, but photographic films cannot possibly come under either of the above headings, and the trade will do well to remember this. The "Robot Chemist," however, in the form of automatic machines, will continue to sell films and other preparations when the pharmacy is closed at night or on Sundays. It is one of the anomalies of the law due to piecemeal legislation, and it is quite time some of these unnecessary restrictions were removed.

The Fairness of Price Protection

THE long-looked-for report of the Departmental Committee appointed by the Lord Chancellor and the President of the Board of Trade to inquire into the question of restraint of trade, price protection and kindred subjects will not be much longer delayed. It is common knowledge that the report has been signed by the chairman (Mr. Wilfred Greene, K.C.) and is now before the President of the Board of Trade. Rumour has it that it is in the printers' hands, and if so it can be expected within a very short time. The important question to the drug trade is what the report will contain. Intelligent anticipation leads one to think that the result of the deliberations will be to the effect that the Proprietary Articles Trade Association and kindred price maintenance organisations do not operate in restraint of trade. The evidence put before the Committee certainly showed that it was not contrary to public interests, but of direct public advantage, that such organisations should exist and carry out their work in the manner they do at present. Even in respect of food it was shown clearly that the prices paid by the consumer in spite of the protection were more reasonable than in countries where such protection does not exist. There is little doubt, therefore, that the P.A.T.A. will be armed with a much stronger weapon than it has ever had before in carrying out its work, which is not only in the interests of the retailer, the manufacturer and the wholesaler, but of the whole community. Price protection leads not to monopoly but to fair trading. It may be that certain sections of the trading community will feel they have not got what they desired as a result of the inquiry. If the result does not please them, it is evidently because the case for price maintenance is unassailable.

Wills

MR. PETER BUCHANAN McMURRAY, Helensburgh, Dumbarton, chemist and druggist, who died on May 21, left personal estate £2,475.

MR. WILLIAM EDWARD KNOWLES, of Market Place, Birstall, Yorks, chemist and druggist, who died on March 2 last, aged eighty-two, has left £12,248, with net personalty £10,114.

MR. HARRY HOWES STURCH, Ph.C., Stoke Davenport, Plymouth, who died on April 16, aged sixty-two, left estate of the gross value of £2,104 1s. 2d., net personalty £2,008 14s. 2d.

MR. JENKIN THOMAS, 2 Banbury Road, Oxford, chemist and druggist, who died on January 16 last, aged thirty-five, left estate of the gross value of £575, with net personalty £412.

DAME MARY DINGLEY BARCLAY, of Wynd Cottage, Bude, Cornwall, who died on June 13 last, widow of Sir Thomas Barclay (Southall Bros. & Barclay, Ltd., manufacturing chemists, Birmingham), left estate of the gross value of £39,746, with net personalty £38,588.

New Books

Cooper, J. W., and McLaren, A. C.—*Latin for Pharmaceutical Students*. 8½ in. by 5½ in. Pp. 109. 6s. Pitman & Sons, Ltd., Parker Street, London, W.C.2. [The authors' method in the compilation of this manual may be explained by the following quotation from their preface: "It has been necessary to disregard the time-honoured arrangement which commences with all the Declensions of Nouns and Adjectives, and then proceeds to the complete Conjugations of Verbs, and so on. In its place we have essayed to teach Grammar applied in the form of phrases, and to interest the student, from the earliest Lessons, in the building up of prescription sentences." Whether "these innovations," to use Messrs. Cooper and McLaren's phrase, will result in smoothing the way for the student of pharmaceutical Latin can only be determined by the observation of results; in any case, it is clear that the usage of prescriptions has to be learned in one order or another. When another edition of the book is called for, it will be as well to change the genders of some of the adjectives on page 61.]

Parry, E. J.—*Sandalwood Oil*. 8½ in. by 5½ in. Pp. 46. The Government of Mysore. [As is well known, Mr. E. J. Parry was the first to put the analysis of sandalwood oil on a satisfactory footing, and his paper on the subject (*C. & D.*, 1895, II, 197) has formed the basis of the standards for sandalwood oil in all the pharmacopœias which demand a minimum amount of santalol. The present work is an account of the history, cultivation, chemistry and analysis of the true East Indian sandalwood oil, together with the chemistry of all the oils derived from *Santalum* species which have been reported upon, and all the oils (from ten sources) known commercially as sandalwood oils. Naturally the true sandalwood oil, which is official in practically every pharmacopœia in the world (*C. & D.*, 1927, II, 710), occupies the principal part of the work. The whole of the matter is fully up to date, and may be taken as an accurate and comprehensive account of our state of knowledge of all these oils. There is no polemical matter, the results and opinions of the various observers being reproduced without comment by the author. There are a number of illustrations, including an excellent map reproduced by permission of Schimmel & Co. The booklet is well printed, bound in cloth, and remarkably free from typographical errors.]

Tschirch, A.—*Handbuch der Pharmakognosie*. Second enlarged edition. 11 in. by 7½ in. Vol. I, Part I (Nos. 1 to 5, 8 marks each). Pp. 594. Verlag von Bernhard Tauchnitz, Leipzig. [Pharmacists and all interested in drugs will welcome the announcement of the publication of a new and enlarged edition of Professor Tschirch's monumental work on vegetable materia medica, a task in which that indefatigable investigator is being assisted by the collaboration of numerous experts. The new edition is appearing in instalments of about 112 pages each and the issue of No. 5 completes the first part of the first volume. This part is devoted to general information concerning the history, sources and commerce of the drugs used in medicine and is divided into the following chapters:—I and II, Definition and aims of pharmacognosy; III, Cultivation, collection and harvesting of drugs; IV, Commerce of drugs, drug routes, statistics of production and exports; V, Commercial varieties and drug packages; VI, Bibliography, classified lists of works dealing with materia medica published since 1693; VII, Journals, reports and other publications in which pharmacognostical subjects are treated; VIII, Instruction in pharmacognosy; IX, Applied pharmacognosy, identification, examination and storage, chemical and biological determination of activity and purity of drugs; X, Points to be included in the description of each drug. This part contains, in addition to three maps, 376 illustrations, of which 42 are full-page reproductions. The work represents an achievement of which the eminent author, now in his seventy-fourth year, may well be proud.]

Pharmacopœia Commission

SECOND REPORT OF THE PHARMACY SUBCOMMITTEE

The following is an abridgment of the second report of the Pharmacy Subcommittee submitted to the Pharmacopœia Commission of the General Medical Council in continuation of the work printed in full in THE CHEMIST AND DRUGGIST, 1930, II, 523-27, 589-92. As in the case of the first report, the Commission invite criticisms and suggestions from medical practitioners, pharmacists and others interested; and careful consideration will be given to such criticisms and suggestions.

(Continued from the C. & D., July 18, p. 69.)

Infusion, Concentrated (continued)

INFUSUM CALUMBÆ CONCENTRATUM

Calumba, cut small	400 grams
Alcohol (90 per cent.)	250 millilitres
Distilled water	a sufficient quantity

Macerate for one hour, with occasional stirring, the calumba with 1,100 millilitres of distilled water, strain, and reserve the clear liquid. Repeat the process for a second and a third time, using 500 millilitres of distilled water in each case. After the third maceration lightly press the marc. Evaporate to 250 millilitres the products of the second and the third macerations mixed with the liquid expressed from the marc; mix with the product of the first maceration; add the alcohol (90 per cent.); adjust the volume to 1,000 millilitres. Allow to stand for not less than fourteen days; filter.

INFUSUM CARYOPHYLLI CONCENTRATUM

Clove, bruised	200 grams
Alcohol (25 per cent.)	1,100 millilitres

Macerate, in a covered vessel for forty-eight hours, the clove with 600 millilitres of alcohol (25 per cent.); press out the liquid. To the pressed marc add 500 millilitres of alcohol (25 per cent.); macerate for twenty-four hours; press; add the liquid to the product of the first pressing. Allow to stand for not less than fourteen days; filter.

INFUSUM GENTIANÆ COMPOSITUM CONCENTRATUM

Gentian, thinly sliced	100 grams
Dried bitter orange peel, cut small	100 grams
Lemon peel, cut small	200 grams
Alcohol (25 per cent.)	1,200 millilitres

Macerate, in a covered vessel for forty-eight hours, the gentian, dried bitter orange peel and lemon peel with 1,000 millilitres of alcohol (25 per cent.); press out the liquid. To the pressed marc add 200 millilitres of alcohol (25 per cent.); macerate for twenty-four hours; press; add the liquid to the product of the first pressing. Allow to stand for not less than fourteen days; filter.

[The other concentrated infusions suggested are those of orange, quassia, senega and senna, each of which is prepared by one of the processes given.]

Injectio

INJECTIO BISMUTHI

The Subcommittee have been asked to submit a formula for an injection of bismuth metal suspended in isotonic solution of dextrose for intramuscular injection. The Subcommittee recommend that a precipitated form of bismuth metal in powder be described, along with tests to ensure its purity, and that this precipitated bismuth be used in preparing the injection. The monograph given below has been referred to the Pharmaceutical Chemistry Subcommittee for amplification of the characters and tests.

BISMUTHUM PRÆCIPITATUM

Precipitated bismuth may be obtained by the reduction of a solution of bismuth trichloride in hydrochloric

acid by means of hypophosphorous acid. It contains not less than 98.5 per cent. of metallic bismuth.

Characters.—A dull grey powder easily diffusible in water. When mixed with water and examined under the microscope no particles having a diameter exceeding 15 microns are present. Insoluble in water.

Tests for Identity.—A solution in nitric acid yields the reactions characteristic of bismuth.

Test for Purity.—Arsenic limit, 10 parts per million.

INJECTIO BISMUTHI

Precipitated bismuth, in very fine powder	20 grams
Dextrose	5 grams
Cresol	0.5 millilitre
Distilled water, freshly redistilled from glass apparatus, sufficient to produce	100 millilitres

Dissolve the dextrose and the cresol in the distilled water and make up the volume to 100 millilitres. Sterilise by heating in an autoclave or by Tyndallisation. Place the precipitated bismuth in a suitable container and sterilise by heating in an autoclave or by Tyndallisation, cool and add sufficient of the dextrose solution to produce 100 millilitres, mix thoroughly and transfer to suitable sterilised containers. This preparation contains in 1 millilitre 0.2 gram of bismuth.

INJECTIO BISMUTHI SALICYLATIS

Bismuth salicylate, in very fine powder	10 grams
Camphor	1 gram
Phenol	1 gram
Olive oil, sufficient to produce	100 millilitres

Heat about 110 millilitres of olive oil at 150° for one hour; cool. Dissolve the camphor and the phenol in 50 millilitres of the olive oil, triturate the bismuth salicylate with the solution and add sufficient of the olive oil to produce the required volume. Mix thoroughly. Transfer to suitable containers and sterilise by heating in an autoclave or by Tyndallisation. This preparation contains in 1 millilitre 0.1 gram of bismuth salicylate.

INJECTIO FERRI

Solution of ferric chloride	7 millilitres
Citric acid	2 grams
Dilute solution of ammonia, Distilled water	of each a sufficient quantity
Sterilised distilled water, sufficient to produce	100 millilitres

Mix 6 millilitres of dilute solution of ammonia with 25 millilitres of distilled water, and add very gradually with constant stirring the solution of ferric chloride diluted with 35 millilitres of distilled water, rinsing the vessel containing it with a further 10 millilitres of distilled water, taking care that the dilute solution of ammonia is finally in slight excess as indicated by the odour; set aside for two hours, stirring occasionally; filter, and wash the precipitated ferric hydroxide until completely free from chloride. Dissolve the citric acid in 5 millilitres of distilled water, warm the mixture on the water bath, and transfer the ferric hydroxide to the solution with the aid of a spatula, washing the spatula and filter free from ferric hydroxide with 10

millilitres of distilled water; stir them together until nearly the whole of the ferric hydroxide has dissolved, and heat at a temperature just below the boiling point for forty-five minutes. Allow the solution to cool. Add solution of ammonia carefully, until the solution does not give a red colour with solution of methyl red or with solution of phenol red, make up to 100 millilitres with sterilised distilled water and filter. Transfer to suitable containers and sterilise by heating in an autoclave or by Tyndallisation. This preparation contains in 1 millilitre the equivalent of about 0.0035 gram of iron.

INJECTIO HYDRARGYRI. SYNONYM: MERCURIAL CREAM

Mercury	10 grams
Wool fat	50 grams
Camphor	10 grams
Creosote	10 millilitres
Olive oil	23 millilitres

Heat the wool fat and the olive oil separately at 150° for one hour; cool. Triturate the mercury with 10 grams of the wool fat in a sterilised mortar until metallic globules cease to be visible under a lens magnifying four diameters, then incorporate the remainder of the wool fat. Add the camphor previously dissolved in the creosote, and then the olive oil. Mix thoroughly and transfer to sterilised containers. This preparation contains in 1 millilitre 0.1 gram of mercury.

INJECTIO HYDRARGYRI SUBCHLORIDI. SYNONYMS: CALOMEL INJECTION; CALOMEL CREAM

Mercurous chloride, precipitated in very fine powder	5 grams
Wool fat	50 grams
Camphor	10 grams
Creosote	10 millilitres
Olive oil	23 millilitres

Heat the wool fat and olive oil separately at 150° for one hour; cool. In a sterilised mortar triturate the mercurous chloride with a little of the olive oil. Add the wool fat and the remainder of the olive oil and incorporate the camphor previously dissolved in the creosote. Mix thoroughly and transfer to sterilised containers. This preparation contains in 1 millilitre 0.05 gram of mercurous chloride.

STERILISATION OF INJECTIONS

The expression "heating in an autoclave" is defined by the Subcommittee on the preparation of Sterile Materials for Injection as exposure to steam at 115° to 116° for thirty minutes (10 lb. per sq. in. excess pressure). "Tyndallisation" is defined as heating at 80° for one hour on three successive days.

Liniments, Ointments and Plasters

At an early stage of their work the Subcommittee were informed that olive oil of high grade would be described in the new Pharmacopœia, and the suggestion was made that the use of a cheaper oil should be permitted in making liniments, ointments and plasters. The proposal, made in the first report of the Subcommittee, that cottonseed oil should be used for this purpose, has been adversely criticised, more particularly in relation to liniment of camphor. The Subcommittee now make the suggestion that the Pharmacopœia should recognise in addition to the high-grade olive oil, an olive oil of lower quality which might be used in making the official liniments, ointments and plasters. The case would be met by appending to the monograph on olive oil a note to the following effect:—

"Olive Oil conforming to the above characters and tests, but possessing an acid value not exceeding 6.0, may be employed in making the official liniments, ointments and plasters for which olive oil is directed to be used."

Oxymels

OXYMEL SCILLÆ.—The formula given in the first report of this Subcommittee has been reinvestigated, and the following modification is now recommended:—

Oxymel of Squill contains in 100 millilitres the active constituents of approximately 5 grams of squill.

Squill, bruised	50 grams
Acetic acid	90 millilitres
Distilled water	250 millilitres
Purified honey	a sufficient quantity

[The directions for preparation closely follow those given in the *C. & D.*, 1930, II, 535.]

Pills

PILULA COLOCYNTHIDIS ET HYOSCYAMI.—The following revised formula is recommended, the formula for Compound Pill of Colocynth having been deleted:—

Colocynth, in fine powder	10 grams
Aloe, in fine powder	20 grams
Scammony resin, in fine powder	20 grams
Hard soap, in fine powder	3 grams
Oil of clove	3 millilitres
Dry extract of hyoscyamus	30 grams
Syrup of glucose	14 grams or a sufficient quantity

Mix the oil of clove with the hard soap, add the remaining ingredients, mix to form a mass.

Powders

The Subcommittee recommend the following scheme for the description of powders.

POWDERS.—The degree of coarseness or fineness of a powder is differentiated and expressed by the size of the mesh of the sieve through which the powder is able to pass.

The following terms are used in the description of powders:—

COARSE POWDER (10/44).—A powder of which all the particles pass through a No. 10 sieve and not more than 40 per cent. through a No. 44 sieve.

MODERATELY COARSE POWDER (22/60).—A powder of which all the particles pass through a No. 22 sieve but not more than 40 per cent. through a No. 60 sieve.

MODERATELY FINE POWDER (44/85).—A powder of which all the particles pass through a No. 44 sieve but not more than 40 per cent. through a No. 85 sieve.

FINE POWDER (85).—A powder of which all the particles pass through a No. 85 sieve.

VERY FINE POWDER.—A powder of which all the particles pass through a fine silk sieve.

When the fineness of a powder is described by means of a number, it is intended that all the particles of the powder shall pass through the sieve distinguished by that number.

Sieves

The wire sieves used in sifting powdered drugs are distinguished by numbers which indicate the number of meshes included in a length of 2.54 centimetres (1 inch) in each transverse direction parallel to the wires. The sieves are made of wires of uniform circular cross-section, in accordance with the following specifications, which are in agreement with the British Standard Specification No. 410, 1931. [A table is appended.]

Solutions

LIQUOR ADRENALINÆ HYDROCHLORIDI.—The use of chloroform as a preservative in this solution has been criticised, and the Subcommittee recommended that chlorbutol be substituted for it, in accordance with the following formula:—

Adrenaline	1 gram
Chlorbutol	5 grams
Sodium chloride	9 grams
Dilute hydrochloric acid	3 millilitres
Distilled water, sufficient to produce	1,000 millilitres

Dissolve the chlorbutol and the sodium chloride in 900 millilitres of boiling distilled water, cool, add the dilute hydrochloric acid, dissolve the adrenaline in the mixture, and add sufficient recently boiled and cooled distilled water to produce the required volume. Sterilise by heating in a closed container at 80° for one hour. The containers used comply with the tests for limit of alkalinity of glass.

Storage.—Solution of Adrenaline Hydrochloride should be kept in a well-closed container, protected from light, and stored in a cool place.

LIQUOR ARSENICALIS.—The International Agreement requires a neutral solution containing 1 per cent. of arsenic trioxide. The Subcommittee have tried a number of formulas, and have considered carefully whether the addition of compound tincture of lavender is necessary. It appears that there is no further justification in this instance for including an ingredient which conveys distinctive colour, flavour and odour than there would be in the case of many other poisonous solutions which at present are made without such additions. The following formula, which has been worked out by Mr. T. T. Cocking, is recommended.

LIQUOR ARSENICALIS. SYNONYMS: SOLUTIO ARSENICALIS SEU FOWLERI P.I.; FOWLER'S SOLUTION

Arsenical Solution contains in 100 millilitres the equivalent of 1 gram ± 0.05 of arsenic trioxide.

Arsenic trioxide, in powder..	10 grams
Solution of potassium hydroxide ..	100 millilitres
Dilute hydrochloric acid ..	28 millilitres or a sufficient quantity

Distilled water, sufficient to produce 1,000 millilitres

Dissolve the arsenic trioxide in the solution of potassium hydroxide with the aid of heat; add 500 millilitres of distilled water, and then add, with constant agitation, the dilute hydrochloric acid until the solution is neutral to litmus. Add sufficient distilled water to produce the required volume.

LIQUOR CRESOLIS SAPONATUS.—The suggestion has been made to the Subcommittee that the monograph on this solution should include a formula, but should permit variations from the formula provided that the product complies with the standards and tests laid down. The following monograph is submitted:—

Solution of Cresol with Soap is a solution of cresol in a saponaceous medium prepared from a suitable fixed vegetable oil, and potassium hydroxide, sodium hydroxide or a mixture of these two alkalis and water. It contains not less than 47 per cent. v/v and not more than 53 per cent. v/v of cresol and complies with the tests for purity described below. It may be prepared by the following process:—

Cresol ..	500.0 millilitres
Linseed oil ..	180.0 grams
Potassium hydroxide ..	42.5 grams
Distilled water, sufficient to produce	1,000.0 millilitres

Dissolve the potassium hydroxide in 250 millilitres of distilled water and heat the solution with the linseed oil on a water bath, mixing thoroughly; continue the application of heat until a small portion of the soap is found to dissolve in water without the separation of oily drops, add the cresol, mix thoroughly, and adjust the volume of the product.

LIQUOR SODÆ CHLORINATÆ CHIRURGICALIS.—In dealing with Dakin's Solution, the task before the Subcommittee was to devise a formula for the preparation of a solution which would contain a standard proportion of available chlorine and would be free from excessive alkalinity. The Subcommittee are indebted to Mr. L. H. Boardman for a report on the keeping properties of solutions of this type and to Mr. H. Davis for carrying out the experimental work on which the formula recommended is based.

LIQUOR SODÆ CHLORINATÆ CHIRURGICALIS. SYNONYM: DAKIN'S SOLUTION

Surgical Solution of Chlorinated Soda contains in 100 millilitres not less than 0.5 gram and not more than 0.55 gram of available chlorine.

Chlorinated lime,	
Sodium carbonate,	
Boric acid ..	.. of each a sufficient quantity
Distilled water ..	.. 1,000 millilitres

Determine the proportion of available chlorine in the chlorinated lime as described under "Calx Chlorinata" and prepare the solution by the following method, using the quantities of ingredients indicated in the table:—

Available chloride in chlorinated lime Per cent.	Chlorinated lime Grams	Sodium carbonate Grams	Boric acid Grams
30	18.8	37.6	4.00
31	18.2	36.4	3.87
32	17.6	35.2	3.75
33	17.1	34.2	3.64
34	16.6	33.2	3.53
35	16.1	32.2	3.43

Dissolve the sodium carbonate in the distilled water and add the solution gradually with constant trituration to the chlorinated lime, previously powdered. Transfer to a suitable vessel and shake occasionally during twenty minutes. Allow to stand for a further ten minutes, decant, and filter through a bleached filter paper. To the clear filtrate add the boric acid and shake until dissolved.

Storage.—Surgical Solution of Chlorinated Soda is liable to decompose. It should be kept in a well-closed container, protected from light, and stored in a cool place.

Spirits

SPIRITUS ÆTHERIS NITROSI.—The Subcommittee have carefully considered the suggestion of substituting for this spirit a simple solution of ethyl nitrite of similar character to the Solution of Ethyl Nitrite of the present Pharmacopœia. Investigations have shown that the stability of preparations containing ethyl nitrite is not increased by the use of strong alcohol or glycerin, and the Subcommittee recommend the retention of a preparation of the same character as the spirit of nitrous ether of the present Pharmacopœia. They recommend, however, that the detailed description of the process of preparation should be omitted and that the character of the product should be controlled by tests and assay. The following monograph is recommended:—

Spirit of Nitrous Ether is an alcoholic solution containing in 100 millilitres not less than 1.25 and not more than 2.5 grams of ethyl nitrite, together with aldehyde and other allied substances. It may be prepared by distilling a mixture of alcohol (90 per cent.), sulphuric acid, and nitric acid with copper.

Storage.—Spirit of Nitrous Ether should be kept in a small, well-closed vessel, protected from light, and stored in a cool place.

Suppositories

Suppositories are made with oil of theobroma as basis, unless otherwise directed. If the drug lowers the melting point of oil of theobroma, a quantity of white beeswax sufficient to raise the melting point to 37°, but not higher, may be added. The drug is mixed with, or dissolved in, the melted fatty basis, and poured at a suitable temperature into lubricated moulds of appropriate size. Liquid ingredients may be concentrated, if necessary, by evaporation before incorporation with the basis. Alternatively, where the use of heat is undesirable, methods of cold compression may be used, provided that the drug is uniformly distributed throughout the mass, and the correct dose is contained in each suppository. The dose of a drug to be contained in each suppository is stated by the prescriber. In the case of the following drugs, if the dose is not stated by the prescriber, suppositories containing the following quantities shall be dispensed.

	Metric	Imperial
Suppositorium acidi tannici ..	0.2 gram	3 grains
Suppositorium belladonnæ ..	0.15 mil	2½ minims
	of liquid extract of belladonna, corresponding to about	
	0.001 gram	1/60 grain
	of the alkaloids of belladonna root	
Suppositorium iodoformi ..	0.2 gram	3 grains
Suppositorium morphinæ ..	0.015 gram	¼ grain
	of morphine hydrochloride	
Suppositorium phenolis, <i>Synonym</i>		
—Suppositorium acidi carbolic	0.06 gram	1 grain
Suppositorium plumbi cum opio—		
Lead acetate ..	0.2 gram	3 grains
Opium ..	0.06 gram	1 grain

(To be continued.)

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, July 30

WITH the approach of the holiday season there was little tendency for the markets to recover from the recent setback experienced on account of the German financial crisis. Throughout the markets have been subdued yet entirely steady, and this latter satisfactory feature is no doubt largely due to the fact the current values of the majority of products are down to, or under, cost of production. In the pharmaceutical markets business has gone on in the usual limited way and the general tone is steady. Guaiacol carbonate is much dearer, and it would appear that Continental makers have come to an agreement. There has been an adjustment of sales prices for potassium sulphoguaiacolate, but the scale has not yet been officially advised. It is understood that quantities will be at a lower level than hitherto. Thymol, synthetic, is weakening. Citric and tartaric acids, with cream of tartar, continue to disappoint, and these markets are all marked down, continuing unsteady. Crude drugs, except in a few isolated cases, have been neglected this week; the markets have not yet recovered from the recent financial troubles of Europe. Ipecacuanha is rather firmer and has met with a fair business. Gum acacia continues sluggish and shows further weakness. Menthol is very steady. The essential oil markets seem to have had a poor week, and the recent better tone is only barely maintained. The Sicilian oils are not moving as they should at this time of the year, but the shipment market is holding up well. Bourbon geranium is again marked up. Japanese dementholised peppermint is steady and the American oil is scarce on spot and shipment offers are being withheld in some quarters. Lime is rather dearer, due to short supplies. The fixed oils market is still sluggish and values are mostly unsteady, but there is no outstanding change to report. In industrial chemicals, prices for acetic acid have been marked down £2 per ton, otherwise the market is about steady, but distinctly quiet. The feature of the coal-tar products section is the sustained demand for carbolic acid crystals.

Firmer	Easier	
Bois de rose	Acetic acid	Petitgrain oil
Coriander seed	Bromides	Resin
Geranium oil	Citric acid	Shellac
Guaiacol carbonate	(B.P.)	Tartaric acid
Lime oil	Cream of tartar	(B.P.)
Palm oil	Gum acacia	Thymol
Pitch		

Pharmaceutical Chemicals, etc.

BEYOND one or two alterations in isolated cases the market is keeping steady, and business is fair on small hand-to-mouth lines. Guaiacol carbonate is much dearer, while potassium sulphoguaiacolate is reported to be revised to lower rates for quantities. Competition has caused a further cut in bromide salts. Citric and tartaric acids, with cream of tartar, remain dull and unsteady.

ACETANILID remains dull with values unchanged: B.P. crystals and powder, 1s. 4½d. to 1s. 6d. per lb., as to quantity.

ADIPIC ACID is steady and in occasional demand: pure edible quality, in minimum one-cwt. lots, 1s. 3d. per lb., carriage paid.

ADRENALIN is a quiet market: quoted from 3s. to 3s. 3d. per gram, in tubes.

AMIDOL continues very steady, and business is fair: one cwt., 7s.; 56 lb., 7s. 3d.; 23 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb., in 7-lb. tins.

AMIDOPYRIN is a slow market but quoted prices are maintained: crystals, five cwt., 11s. 11d.; two cwt., 12s. 1½d.; less than two cwt., 12s. 4d.; per lb., with powder 1½d. per lb. extra.

AMMONIUM BENZOATE is steadier with spot values at about 3s. per lb., and slightly less for large quantities.

AMMONIUM ICHTHOSULPHONATE does not meet with much business; prices unchanged: one cwt., 1s. 1½d.; in 14-lb. tins; 1s. 2½d. in 1-lb. tins; 1s. 4d. in 8-oz. tins, and 1s. 7½d. per lb. in 4-oz. tins.

ASPIRIN continues very steady with but little outside material offering; business is fair for the time of year: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 23 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 1 lb., 3s. 4d.; per lb. Export to Colonies and British Possessions: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d. per lb., f.o.b.; less than one cwt., 2s. 9d., per lb., ex works.

ATROPINE SULPHATE is quoted on spot from 7s. to 7s. 3d. per lb., as to quantity.

BARBITONE remains in very quiet demand: spot, one cwt., 7s. 3d.; smaller parcels, up to 7s. 9d. per lb.

BENZONAPHTHOL meets with occasional small inquiry; market steady: 2s. 8d. to 2s. 10d. per lb., as to quantity.

BENZOIC ACID (B.P.) meets with a sustained inquiry with the market competitive: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 1s. 10½d. per lb., ex store.

BISMUTH SALTS.—Convention rates are maintained: citrate, 8s. 7d.; subchloride, 10s. 5d.; carbonate, 7s. 9d.; subnitrate, 6s. 9d. per lb., in minimum cwt. lots; 3s. 9d. per lb. extra for smaller quantities.

BROMIDES.—There has been a moderate inquiry this week. Competition continues keen and the market is inclined to be easier. Ammonium, 1s. 6½d. to 1s. 6½d.; potassium, B.P., granular, 1s. 3½d.; crystals, 1s. 3½d.; sodium, B.P., 1s. 5½d. per lb., and slightly less for bulk quantities.

BUTYL CHLORAL HYDRATE is about steady, but business is slow: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; per lb., in 1-lb. bottles.

CAFFEINE continues in modest demand with no material alteration in spot values: pure alkaloid, 7s. to 7s. 3d. per lb.; citrate, 5s. 4d. to 5s. 8d. per lb.

CALCIUM LACTATE is inclined to be easy as quoted, the lower price for bulk orders only: spot, 1s. 1½d. to 1s. 3d. per lb., as to quantity.

CHLORAL HYDRATE is very steady at home makers' figures; business is fair on small lines: duty-paid crystals, 2s. 11½d. to 3s. 1½d. per lb., as to quantity and packing: foreign, on spot, 3s. 3d. per lb.

CHLOROFORM.—Makers' prices are unchanged: in drums, 2s. 3d. to 2s. 6d.; winchester, 2s. 3½d. to 2s. 6½d.; 2-lb. bottles, 2s. 4½d. to 2s. 7½d.; 1-lb. bottles, 2s. 5½d. to 2s. 8½d.; 8-oz. bottles, 2s. 6½d. to 2s. 9½d.; 4-oz. bottles, 2s. 8½d. to 2s. 11½d. per lb., for 10 cwt. down to 56-lb. lots; carriage paid on minimum cwt. lots.

CITRATES.—Controlled prices show no change; business rather light: potassium citrate, B.P., 1s. 7d.; sodium citrate, B.P.C. 1923, 1s. 8d.; ferri ammon. cit. B.P. (brown), 1s. 9d. per lb. in 23-lb. lots; 7-lb. lots, 5d. per lb. dearei.

CITRIC ACID (B.P. crystals) has remained dull all the week, and the market continues easy as quoted: foreign, on spot, 10½d. per lb., less 5 per cent., carriage paid, and less for large quantities. British makers quote 10½d. per lb., less 5 per cent. discount, carriage paid.

COCAINE is steady at Convention prices: hydrochloride, 25 oz., 20s. 11d.; 16 oz., 21s. 7d.; and less, 22s. 3d. per oz.; pure, 22s. 11d. up to 24s. 4d. per oz.; 1-oz. tins, 2½d. extra.

CREAM OF TARTAR.—Business has again been poor, and the market is rather unsteady: foreign material, on spot, about 77s. 6d. per cwt., less 2½ per cent., carriage paid, and slightly less for large quantities. British makers quote 79s. per cwt., less 2½ per cent. discount, carriage paid.

CREOSOTE (B.P.) is slack: spot, 1s. 7½d. to 1s. 9d. per lb., as to quantity.

CREOSOTE CARBONATE is of little interest: spot, about 5s. 6d. per lb.

EPHEDRINE HYDROCHLORIDE is moving fairly well, and there is competition for the business: quoted from 8s. to 8s. 6d. per oz.; pure, 10s. 6d. to 11s. per oz.

ETHER (METHYLATED).—Makers' prices are steadily maintained; business rather quiet: s.g. 0.750, 1s. 1½d.; 0.735, 1s. 2d.; 0.730, 1s. 2d.; 0.725, 1s. 4d. per lb., in w.-quarts; 12 w.-quarts, halfpenny less, and packed in drums or carboys 1d. less.

GUAIACOL CARBONATE shows a sharp advance with the spot price for small parcels fully 5s. 7½d. per lb. The scale of prices is not yet available.

HEXAMINE.—A very fair business is being transacted with keen prices for good-sized orders: free running crystals, spot, from 1s. 9½d. to 1s. 10d. per lb., and less for large contracts.

HYDROQUINONE is holding steady at the controlled figures with no serious outside competition: ten cwt., 3s. 3½d.; five cwt., 3s. 4½d.; two cwt., 3s. 5½d.; one cwt., 3s. 5¾d.; 56 lb., 3s. 6¾d.; 28 lb., 3s. 8¾d.; 14 lb., 3s. 10½d.; 7 lb., 4s. 0½d.; 1 lb., 4s. 7d. per lb., carriage paid.

LACTIC ACID (B.P.).—The market is unchanged: Convention and outside material being at about level figures: one to 99 ks., 1s. 5d.; 100 to 499 ks., 1s. 4½d.; 500 to 999 ks., 1s. 4d.; 1,000 to 4,999 ks., 1s. 3½d.; and 5,000 ks., and over, 1s. 3d., per lb., in 50 ks. carboys, carriage paid.

MERCURIALS are held at former rates and no material change is anticipated: red oxide, 6s. 10d.; corrosive sublimate, lump, 5s. 10d.; pulv., 5s. 3d.; white precipitate, 5s. 10d.; calomel, 6s. 3d.; yellow oxide, 6s. 9d.; persulphate, 6s. 1d.; per lb., in minimum cwt. lots; 1d. per lb. extra for small parcels.

METHYL SALICYLATE (B.P.) meets with a steady call: one ton and over, 1s. 3d.; five cwt., 1s. 3½d.; one cwt., 1s. 3¾d.; less than one cwt., 1s. 4d. per lb.

METHYL SULPHONAL remains dull but values are fairly steady: two cwt., 12s. 7d.; one cwt., 13s.; 56 lb., 13s. 5d.; small parcels, 13s. 7d. per lb.

METOL is unchanged with about average business on the market: 28 lb., 6s. 9d.; 14 lb., 7s. 3d.; 7 lb., 7s. 9d. per lb., and slightly less for larger quantities.

MILK SUGAR has been rather quiet; competition for business is keen: one ton, 40s. 6d.; ten cwt., 41s. 6d.; two cwt., 43s. 6d. per cwt. in two-cwt. cases.

MORPHINE.—Makers' prices are maintained at the old rates: pure alkaloid crystals, 24s. 8d.; precipitated 24s. 5d.; hydrochloride powder, 19s. 9d.; crystals, 20s. per oz., with lower prices for quantities.

PARAFORMALDEHYDE is in fair demand with business of any size at keen prices: 100 per cent. powder, quantities in kegs, 1s. 4d.; smaller parcels, up to 1s. 5½d. per lb.

PARALDEHYDE is steady on a dull market: quantities in demijohns, 10d.; drums, 11d.; winchesters, 1s. per lb.

PHENACETIN is unchanged at Convention figures, but there are isolated outside offers at rather cheaper rates; crystals, ten cwt., 3s. 8d.; five cwt., 3s. 9d.; two cwt., 3s. 9½d., and less 3s. 10½d. per lb., with powder 1½d. per lb. extra.

PHENAZONE shows no further change in the scale of controlled prices: crystals, ten cwt., 6s. 4d.; five cwt., 6s. 5½d.; two cwt., 6s. 7d.; and less, 6s. 8½d. per lb., with powder 1½d. per lb. extra.

PHENOLPHTHALEIN is seldom inquired for; market is steady: ten cwt., 5s.; two cwt., 5s. 1d.; less than two cwt., 5s. 2½d., per lb.; export, ten cwt., 4s.; two cwt., 4s. 1½d.; less than two cwt., 4s. 2½d. per lb.

PHENYL ETHYL BARBITURIC is quiet on a steady market: less than 56 lb., 54s. 9d. per lb., carriage paid; bottles of one kilo and over free; same prices for sodium.

PIPERAZINE meets with occasional business with the market about steady: one cwt., 26s. 10d.; 56 lb., 27s. 8½d.; 11 lb., 29s. 6d.; 2 lb., 30s. 4½d.; less, 31s. 3d. per lb., in 8-oz. bottles; 1-oz. bottles, 31s. 7d. to 35s. 11d. per lb.

POTASSIUM PERMANGANATE (B.P.) is being called for in small quantities at about 5½d. per lb.: quantities, in drums, 5½d. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Prices are nominal at the moment. It is understood values have been revised with large quantities at cheaper rates. The official scale has not yet been received from the Continent.

PYROGALLIC ACID continues steady and business is sustained: one cwt., 6s. 9d.; 56 lb., 7s.; 28 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d. per lb., in 7-lb. tins.

QUININE SULPHATE is steady at the controlled figure of 1s. 8d. per oz., carriage paid on minimum 200-oz. lots.

RESORCIN is well maintained as quoted, and a fair business is being done: spot, crystals, 2s. 9½d. to 2s. 11d. per lb., as to quantity, with powder 1d. per lb. extra.

ROCHELLE SALTS are unchanged at makers' prices: five cwt. or over, in one delivery, 77s. 6d.; less than five cwt., 80s.; less than one cwt., 82s. 6d. per cwt., carriage paid; PULV. SEIDLITZ, five cwt. or over, in one delivery, 62s. 6d.; less than five cwt., 64s. 3d.; less than one cwt., 66s. 3d.; double, 68s. 9d., 71s. and 73s. per cwt., carriage paid.

SACCHARIN is steady at fixed rates: 550 1 lb., 43s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.) is a firm market at home makers' prices; no foreign material offering: one ton, 1s. 5d.; ten cwt., 1s. 5½d.; five cwt., 1s. 6d.; one cwt., 1s. 6½d.; small parcels, up to 2s. per lb.

SALOL is about unchanged with the market on the quiet side: crystals, two cwt., 3s. 7½d.; one cwt., 3s. 9d.; 56 lb., 3s. 9½d.; smaller parcels, 3s. 10½d. per lb.; powder, 1½d. per lb. extra.

SANTONIN is rather competitive and inclined to be unsteady: 25 kilos, £48 10s.; 10 kilos, £49 10s.; one kilo, £51 10s., per kilo.

SODIUM BENZOATE (B.P.) is meeting with some small business; market steady: one ton, 1s. 6d. up to 1s. 7½d. per lb., for small parcels.

SODIUM DIETHYLBARBITURATE remains dull and unsteady on quotation: spot, 8s. 9d. to 9s. per lb., as to quantity.

SODIUM SALICYLATE (B.P.) is very steady with home makers' doing most of the business: home trade, powder, two tons, 1s. 10d.; one ton, 1s. 10½d.; ten cwt., 1s. 11d.; five cwt., 1s. 11½d.; one cwt., 2s.; 28 lb., 2s. 1d.; 14 lb., 2s. 3d.; 7 lb., 2s. 4d.; 1 lb., 2s. 5d. per lb., with crystals 1d. per lb. extra.

SULPHONAL is dull and rather easy as quoted: crystals, 10s. 1d. to 11s. 2d. per lb., as to quantity, with powder, 1½d. extra.

TARTARIC ACID (B.P. crystals) shows no improvement with the market badly neglected: foreign material, on spot, 10½d. to 10¾d. per lb., less 5 per cent., ex wharf. British makers quote 10¾d. per lb., less 5 per cent. discount.

THEOBROMINE is dull on a keen market: pure alkaloid, 6s. 8d. to 6s. 10d. per lb.; sodium salicylate, 5s. 1d. to 5s. 3d. per lb., as to quantity.

THYMOL meets with little inquiry: synthetic fine white is slightly easier; one cwt., 5s. 10d.; 56 lb., 6s.; 28 lb., 6s. 2d.; 14 lb., 6s. 4d. per lb.; ex ajowan seed, one cwt., 6s. 9d.; 56 lb., 6s. 10½d.; 28 lb., 7s.; 14 lb., 7s. 3d. per lb.

VANILLIN is fairly steady as quoted, and business is moving; outside material seems to be limited: ex guaiacol, one ton, 13s.; ten cwt., 13s. 3d.; five cwt., 13s. 6d.; three cwt., 13s. 9d.; one cwt., 14s.; 56 lb., 14s. 3d.; 28 lb., 14s. 6d.; 14 lb., 14s. 9d.; less, 15s. per lb.; ex clove oil, 14s. 6d. to 16s. 6d. per lb., as to quantity, from one ton to less than 14 lb.

Crude Drugs, etc.

ACONITE ROOT is dull, with spot about 72s. and shipment about 66s., c.i.f.

AGAR-AGAR has been of small interest this week, but the market is steady, with the shipment position firm: Kobe No. 1, 4s. 1½d. spot, 4s. 2d. c.i.f.; No. 2, 3s. 11d. spot, 3s. 11½d. c.i.f.; Yokohama, spot 3s. 11d., 3s. 10d. c.i.f.

ALOES.—The market is dull: Curaçao, on spot, about 115s. to 125s. per cwt.

ANTIMONY has been quiet throughout, with the market about unchanged: Chinese crude, spot, £21; shipment, £14, c.i.f.; Chinese white oxide, spot, £30; shipment, £22 10s.

ARECA is holding at former rates on a dull market: good sound, 30s.; fair, 28s. 6d. spot.

BALSAMS.—The market for *Tolu* is firm on spot at close up to 2s. 5d. to 2s. 6d. per lb.; Canada, 3s. 10d. to 3s. 11d.

BELLADONNA has been slack: good test root is offered on spot at about 44s. to 45s.

BENZOIN.—Sumatra seconds are at £7 17s. 6d. to £8, and alomdy seconds at £6 17s. 6d.; Siam is quoted from £22 to £26 per cwt., as to grade.

BUCHU.—This market has been flat; fair to good green round leaves are offered at from 11d. per lb. upwards; ovals, from 7½d. to 8d. per lb.

CAMPHOR has met with a moderate business and supplies are rather limited on spot: Japanese refined, slabs, 2s. 1d.; flowers, 2s. 2d.; tablets, from 2s. 7½d.; shipment, slabs, 1s. 11d.; flowers, 1s. 11½d.; tablets, 2s. 5d., c.i.f.

CARDAMOMS.—Market has been dull: bold Ceylon-Mysore, 5s. 6d. to 5s. 9d.; mediums, 3s. 9d. to 4s.; small mediums, 2s. 6d. to 3s. 3d.; smalls, 2s. to 2s. 3d.; greens, 1s. 10d., spot; Bombay seeds, 2s. 11d. lb., spot.

CASCARA SAGRADA.—The new crop is reported to be short and the shipment quotation is very steady at 40s. to 41s., c.i.f.; some lots of 1923 peel are offered at 48s. to 50s., c.i.f.; 1930 peel on spot in limited supply at 45s. The market is very steady throughout.

CASCABILLA is about steady, with occasional business: good silvery quill, 3s. 3d. per lb.; siftings, from 1s. 10d. per lb.

CASSIA FISTULA has been neglected, but supplies are limited and the market is maintained at about 28s. 6d., spot.

CHAMOMILES.—The market is fairly steady but rather dull: spot, old crop, medium to fair white, 110s. to 120s.; new crop shipment offers are about 117s. 6d. to 120s., c.i.f.

CLOVES.—The market has been dull and values are barely maintained: Zanzibar, spot, 9½d.; shipment, August-October, 6½d., c.i.f.; Madagascar, spot, easier at 8½d., sellers.

The landings of Zanzibar in London during the week ended July 25 were 100 and the deliveries 46, leaving a stock of 493, against 1,067 in 1930. From January 1 to date, landings of Zanzibar have been 1,054, against 6,030 in 1930, and the deliveries 1,580, against 4,970 in 1930. Landings of Madagascar for the week ended July 25 were nil, and the deliveries 26, leaving a stock of 1,250, against 3,816 in 1930. Landings of Madagascar this year to date have been 2,113, against 4,824 in 1930, and the deliveries 1,769, against 2,021 in 1930.

COCOA BUTTER is fairly steady and moderate business is reported: prime English, 10d.; Van Houten's A, 10½d per lb. in minimum one-ton lots.

COCONUT (DESICCATED) is a point easier and business has been rather quieter: spot, fine and medium, 19s. 6d.; shipment, halves, August-September, 17s. 3d., c.i.f.

COD-LIVER OIL.—A fair inquiry for the time of year continues and a few minor contracts have been placed for autumn shipment. The shippers are fully maintaining their former rates and do not appear anxious to press sales: finest non-freezing Lofoten medicinal oil, 113s. to 114s. per barrel, c.i.f. spot; minimum five-barrel lots, 116s.; some grades may be slightly cheaper.

DIGITALIS LEAVES remain slack: spot, Hungarian ordinary, 38s.; shipment, about 34s., c.i.f.

ERGOT.—Quotations for Spanish new crop are at 1s. 4d. to 1s. 5d. per lb., c.i.f. Russian is steady on spot at from 10½d. per lb.

EUONYMUS BARK (Wahoo Bark) is of little interest: spot, 2s. 3d. to 2s. 4d. per lb.

GAMBOGE is quoted at about £17 per cwt. for fair orange quality.

GELATIN is steady and a limited business has been transacted: gold leaf, 2s. 1d.; silver leaf, 1s. 8d.; bronze leaf, 1s. 5d. per lb., in cwt. cases.

GINGER is keeping up to former rates, although business has been much quieter: West African, spot, 26s.; shipment, 24s., c.i.f.

GUM ACACIA is still very sluggish and prices are again a trifle easier and the market is rather unsteady: Kordofan cleaned sorts, 38s. 6d.; natural, 36s. 6d.; bleached, 102s. to 105s. per cwt.

Exports from Sudan for the period January-June totalled 13,142 cwt., against 13,015 cwt. for the same period of 1930. U.K. imports for the period January-June totalled 3,348 cwt., against 2,717 cwt. for the same period of 1930. U.S.A. imports for the period January-June totalled 2,452 cwt., against 2,433 cwt. for the same period of 1930.

HENBANE is quoted on spot in the region of 35s. to 35s. 6d.

HENNA LEAVES have remained in quiet demand, with prices about 30s. to 37s., as to colour.

HYDRASTIS has met with very little inquiry: quoted on spot at 6s. 3d. to 6s. 6d. per lb.

IPCAOUANHA.—Several good lots have been cleared since last week's auction and the remainder is held at full rates: on spot, Matto Grosso, 6s. 6d. to 6s. 9d. per lb. The shipment market is steady at 6s. 3d., c.i.f.

JALAP is steady, although there is but small demand: spot, good Vera Cruz, 13.6, 1s. 4d.; 16.6, 1s. 9d. per lb.

KOLA is a dull market, with West Indian halves at about 2½d. per lb.

LYCOPodium is unchanged and dull: spot, 3s. to 3s. 3d. per kilo.

MALE FERN EXTRACT is offering on spot, with some business moving: quoted from 3s. 5d. per lb.

MENTHOL is fully maintained and spot stocks are reported rather limited; the shipment market is firm: spot, K/S brands, 13s. 7½d.; shipment, July-August, 13s.; October-December, 13s.; c.i.f.

MERCURY is not likely to move from its present figure in the near future: quoted by Mercurio Europeo at £16 15s. per bottle, f.o.b.; spot, about £17 for fair quantities.

PAPAIN has been very dull: Ceylon good quality ground crumbs, about 7s. 6d. per lb.

PEPPER has been quiet all the week and spot values are barely maintained, with the shipment market a trifle easier: Lampong, spot, 5½d.; shipment, July-August, 5½d.; August-October, 5½d. sellers, c.i.f.; Tellicherry, spot, 6d.; August-September, 56s., c.i.f.; Alleppy, spot, 6d.; August-September, 55s., c.i.f.; white Muntok, spot, 8½d.; July-August, 7½d.; August-October sold at 7½d., c.i.f.

PIMENTO is being maintained at full rates on quotation, but the market has been dull: spot, 3½d.; shipment, August-October, 28s. sellers, c.i.f.

RHUBARB has been very quiet, no interest being shown: Canton, common round, high-dried, 1s. 1d. to 1s. 4d. per lb., spot.

RUBBER has had a bad week, with the market neglected and values showing further depreciation. U.K. stocks, 135,439 tons, against 109,226 tons a year ago. World stocks at June 30 totalled 539,628 tons, against 407,179 at June 30, 1930. No. 1 standard ribbed smoked sheet, sellers, spot, 2½d.; July, August and September, 2½d.; October-December, 2½d.; January-March, 3½d.

SAFFRON.—The market is steady and some fair business is reported, prime B.P. is dearer at 44s.; extra B.P., 40s.: super B.P., 38s. per lb., spot.

SARSAPARILLA is barely maintained at former rates, with the market still dull: genuine grey Jamaica, barely 1s. 1d. per lb.

SEEDS.—**ANISE.**—Spanish, 47s. 6d.; Bulgarian, 32s. 6d.; Russian, 30s. per cwt., spot. **CANARY.**—Market quiet, with prices unchanged: Mazagan, spot, 18s.; shipment, 12s. 3d., c.i.f.; Tangier, 17s. 6d.; Kenitra, sellers 15s. 6d., buyers 15s. **LINSEED.**—Mazagan, 16s. 6d.; Morocco, 16s., spot. **CORIANDER.**—Market rising owing to reports of small crop. Business done at 10s. 6d., spot. For shipment, 15s. c.i.f., is quoted; Russian is 10s. 6d. spot. **CUMIN.**—Malta, 50s. spot, shipment, 45s. c.i.f.; Morocco, spot 40s., shipment, 30s., c.i.f. **FENUGREEK.**—Prices firmer, spot 14s.; Tunisian, 16s. 6d. spot. **CARAWAY.**—Dutch, 25s. to 26s. spot. **MUSTARD.**—English, 22s. 6d. to 32s. per cwt., according to quality.

SENEGA is well held on spot at 2s. 2d. per lb.; business has been unimportant; shipment is about 1s. 9d., c.i.f.

SENNA.—Business has been negligible and prices are nominally unchanged: spot, Alexandrian, finest selected hand-picked pods, about 5s. 6d.; seconds, 3s. 6d.; mediums, 1s. 9d.; ordinary manufacturing, 4½d. to 5d. per lb., as to quality. Finest new crop, ordinary f.a.q. pods, 4d. to 4½d.; hand-picked, 5½d. to 6d. per lb.

SHELLAC is again easier after the recent temporary improvement and business has been slow: TN standard orange, spot, 72s. 6d.; fine orange, 87s. 6d. to 160s.; pure button, 90s.; for delivery, TN sellers, August, 62s.; September-October, 63s.; December, 66s.; for arrival, TN sellers, July-August, 62s.; September-October, 63s., c.i.f.

STRAMONIUM has been neglected: Hungarian, good green leaves, 41s. to 42s.; Italian, 32s. 6d., spot.

TONKA BEANS.—The market has a firmer tendency and stocks of fine Angostura are depleted; stocks left are steady at 5s. and upwards per lb.

WAX (VARIOUS).—Business in these products has again been quiet, but the markets are keeping fairly steady: JAPANESE, on spot, 47s.; CARNAUBA, fatty grey and chalky grey, 67s. 6d.; medium yellow, 140s.; fine yellow, 170s. per cwt., spot. Candelilla is steady at 65s. per cwt.; SPERMACEIL, 9½d. per lb. spot; PARAFFIN, 17s. 6d. to 27s. 6d. per cwt., as to melting point; CERESINE, 35s. to 80s. per cwt., as to colour and melting point; BEES, bleached, discs, £7; slabs, £6 17s. 6d.; yellow refined, £6 2s. 6d.; yellow crude, £5 5s. per cwt., spot.

Essential Oils

BUSINESS has been rather disappointing, even the seasonal products dragging. This may be due in part to the inclement weather. There is a subdued tone throughout the market, but at the same time prices, on spot and particularly for shipment, are with hardly an exception fully maintained. This is due, no doubt, to the present general level of prices being below cost of production. Bourbon geranium is firm. Japanese dementholised peppermint is quiet but steady. Lemon, orange and bergamot are about held unchanged on dull markets.

ALMOND continues to be quoted in the region of 6s. 6d. per lb., on spot: business is small.

ANISE (STAR) is about level on the week, while business has been limited: spot, "Red Ship," in leads, 2s. 2d.; in tins, 2s.; in drums, 1s. 10½d.; for shipment, in leads, 1s. 9½d.; in tins, 1s. 8½d.; in drums, 1s. 7½d. per lb., c.i.f.

BERGAMOT.—Business has been on a very modest scale this week, but the market is just about maintained, and is keeping very steady on spot while the shipment position may well advance: spot is at 8s. to 8s. 3d., while shipment offers are firm at 7s. 6d. per lb.

U.S. imports for period January-May totalled 33,048 lb., valued \$63,566, against 111,266 lb. (\$305,553) for same period of 1930.

BOIS DE ROSE is dearer on the week with Cayenne at 3s. 10d. to 4s. per lb., with occasional small business passing. Brazilian, spot, 2s. 9d.; shipment, 2s. 6d. per lb., c.i.f.

CARAWAY is about unchanged, and there has been very little inquiry on the market this week: Dutch double-distilled, 6s.; crude, 5s. 7d. per lb., spot.

CASSIA is inclined to be rather easy as quoted at 3s. 3d., and this figure might be shaded for oil passing the B.P. in good quantity; shipment is about 3s. per lb., c.i.f.

CEDARWOOD has been neglected but the market is steady: spot, 1s. 7d.; shipment, 1s. 3d. to 1s. 4d. per lb., c.i.f.

CINNAMON LEAF has been in poor demand with values maintained: spot, 3s. 6d.; shipment, 2s. 9d. per lb., c.i.f.

CITRONELLA.—There has been very little business moving but prices are being steadily maintained: Java, spot, 2s. 3d.; shipment, 2s. 1d. per lb. c.i.f. Ceylon, spot, 1s. 9d.; shipment, 1s. 5d. per lb., c.i.f.

CLOVE is about steady as quoted, and business has remained unimportant: spot, 5s. 9d. to 6s. 3d. per lb., as to quantity, for 90 to 92 per cent.

EUCALYPTUS.—A rather better business has been done in some directions with Spanish oil: the market is fairly steady; 70 to 75 per cent., 1s. 1d. to 1s. 1½d.; 80 to 85 per cent., 1s. 2½d. to 1s. 3d. per lb., and slightly less for bulk quantities.

GERANIUM.—This market is being well maintained, and, if anything, Bourbon on spot is a shade dearer at 16s. 9d. per lb. Shipment is steady at 16s. c.i.f. There has been some inquiry for African, for which it is difficult to define values at the moment.

U.S. imports for period January-May totalled 71,412 lb., valued \$197,679, against 82,674 lb. (\$258,591) for same period of 1930.

GINGERGRASS is unchanged on quotation, but the market has been slack: spot, about 7s. 3d. to 7s. 6d. per lb.

JUNIPER BERRY (B.P.) has been of little interest: market is unchanged; spot, about 4s. 6d. per lb.

LAVENDER has been in poor demand, but the market is keeping up very steadily: French 38 to 40 per cent., 8s. 3d. to 8s. 6d., spot; shipment, 8s. per lb., c.i.f.; 36 to 38 per cent., 8s. to 8s. 3d. per lb.

LEMON.—Actual business has been disappointing, but despite the lack of demand the market is steadily maintained, the shipment position being particularly strong: Sicilian hand-pressed, spot, about 3s. 9d.; shipment, 3s. 6d. per lb., c.i.f.; machine-made, on spot, 3s. 4d. to 3s. 5d.; shipment, about 3s. 2d. to 3s. 3d. per lb., c.i.f. Californian oil, 2s. per lb., in drums, spot.

U.S. imports for period January-May totalled 210,236 lb., valued \$121,787, against 427,225 lb. (\$428,870) for same period of 1930.

LEMONGRASS is maintained at full spot rates, although there is but little business moving: spot, 2s.; shipment, 1s. 9d. per lb., c.i.f.

LIME is rather firmer and supplies are limited: genuine distilled, 40s. to 42s. 6d.; hand-pressed, about 52s. 6d. per lb., spot.

MANDARIN is holding at last week's higher rate of 14s. 3d. spot, and shipment at fully 13s. per lb., c.i.f.

ORANGE.—The marked lack of good-sized business has had no appreciable effect on this market, which is keeping steady: Sicilian sweet, spot, 7s.; shipment, 6s. 6d. to 6s. 9d., c.i.f.; Californian oil, spot, 3s. 5d. to 3s. 9d., as to quantity.

U.S. imports for period January-May totalled 63,472 lb., valued \$128,275, against 101,720 lb. (\$228,342) for same period of 1930.

PALMAROSA is about steady, while business has been disappointing: spot, about 8s. 6d., and shipment, 8s. per lb., c.i.f.

PEPPERMINT.—There has been only a very limited business moving this week, but both spot and shipment markets are holding quite steady, with values about level: Japanese dementholised, spot, 4s. 7½d.; afloat, 4s. 4½d.; shipment, July-August, 4s. 5d.; October-December, 4s. 3d., c.i.f. American oil continues very short on spot at a nominal figure; quotations for shipment are infrequent and at about 7s. 6d., c.i.f. Rumours of a poor crop continue.

U.S. exports of domestic oil for period January-May totalled 86,220 lb., valued \$177,933, against 92,814 lb. (\$333,920) for same period of 1930.

PETITGRAIN is rather easier, with the market very quiet: spot, 4s. 9d.; shipment, about 4s. 3d. per lb., c.i.f.

ROSE is irregular and freely offered. At the same time some of the best shippers are holding their prices: spot, own distillation, about 47s. to 50s.; green seal, about 35s. to 36s. per oz.

SASSAFRAS has been neglected on spot, but the tone is steady: spot, 4s. 3d. to 4s. 8d. per lb., as to origin.

SPEARMINT is well maintained at last week's dearer figure on spot of 10s. per lb.

BAY, spot, 5s. 9d. to 7s. 6d., as to phenol content; **CANANGA**, 7s. 9d.; **GINGER**, 25s.; **NEROLI**, French, 16s. to 22s.; Italian, 4s. 3d. to 4s. 6d.; **NUTMEG**, B.P., 5s. 9d.; **PENNYROYAL**, dearer at 4s. 3d.; **SAGE**, 1s. 10d. to 2s.; **THYME**, white, 3s.; red, 3s. 6d.; wintergreen, 6s. 6d.; **WORMSEED**, 12s.; **YLANG-YLANG**, Manilla, 5s. oz.; Bourbon, 20s. to 32s. 6d. per lb.

The following quotations are current for synthetics: acetophone, 6s. 3d. to 6s. 6d.; amyl salicylate, cwt. lots, 2s. 2d.; aubepine, ex para cresol, 6s. 4½d. to 6s. 8d.; benzyl acetate, 1s. 5d. to 1s. 8d.; coumarin 5 cwt., 10s.; one cwt., 10s. 6d.; small lots, 11s.; citral, 6s. 3d. to 6s. 4d.; ethyl phthalate, cwt. lots, 2s. 2d.; heliotropin, cwt. lots, 4s. 10d.; methyl anthranilate, cwt. lots, 5s. 6d.; musk ketone, 29s. 10d., with bonus for quantities; safrol, 1s. 10½d. to 2s.

The following arrivals have taken place from the countries indicated during the period July 22 to 23, inclusive: Almond (Fr.) 2 cs.; bergamot (It.) 78 cs.; bitter almond (Fr.) 3 cs.; camphor (Jp.) 1 dm.; citronella (Ceylon) 51 dms.; (Java) 8 dms.; clove (Gy.) 5 dms.; eucalyptus (Austl.) 25 cs. 9 dms.; guaiacawood (Gy.) 1 cs.; lemon (It.) 58 cs.; lemongrass (Ind.) 4 dms.; orange (It.) 4 cs.; peppermint (U.S.) 5 cs. 3 dms.; petitgrain (Nthlnds) 2 cs.; pine (Gy.) 1 cs. 1 dm.; spike lavender (Fr.) 2 cs.; various (Fr.) 12 cs., (Nthlands) 7 cs., (Ceylon) 7 pots; wormseed (U.S.) 2 cs.; ylang-ylang (Fr.) 2 cs.

Fixed Oils, etc.

GENERAL depression continues to be reported in this market, business being at a very low ebb. The recent financial trouble in Europe is still being felt, and this, combined with the holiday season, has left the market flat and in many cases unsteady. Linseed oil is easier; resin is again cheaper, while palm oil shows a slight recovery on quotation, but there is little business moving. **ACID OILS** are still dull but steadier: coconut and/or palm kernel, 21s.; groundnut, 16s. 6d.; soya, 14s., spot. **CASTOR** is unchanged on a quiet market: pharmaceutical, 39s. 6d.; first pressings, 35s. 6d.; second pressings, 32s. 6d. (barrels); cases £4 per ton extra, ex mills, Hull, in not less than one-ton lots: Madras, 29s. 6d. (barrels) c.i.f.; Bombay, 29s. 6d. (drums), c.i.f. **COCONUT** is unsteady and rather easier: deodorised, 29s. 6d. (barrels) spot; Ceylon, 24s. (drums), c.i.f. **COTTON** is again slightly easier and the market is still dull: deodorised, 26s. 6d.; common edible, 24s. 6d.; soapmaking, 23s. 6d.; crude, 21s. 6d. (barrels), spot. **GROUNDNUT** is slightly easier and the market has been very flat: deodorised, 23s. 6d. (barrels), spot; crude Oriental, 25s. 6d. (drums), c.i.f. **LINSEED** (raw, naked) has been quiet all the week and prices for forward positions are rather easier; on spot, 17s.; August, 16s. 3d.; September-December, 16s. 6d.; January-April, 17s. 4½d. Boiled oil, on spot, 19s. 3d. **OLIVE** has met with some small business; market barely steady: edible, 4s. 10d.; B.P., 3s. 11d. per gallon, in 40-gallon barrels. **PALM.**—A small recovery in values is recorded this week, but business is still decidedly quiet and the market is irregular: Lagos, 17s. 9d.; softs, 17s.; mediums, 17s. 6d.; hards, 18s. 6d.; bleached, 20s., spot. **PALM KERNEL** is holding up, with the market showing little activity: deodorised, 26s.; crude, 23s., spot. **RAPE** is a point cheaper on a flat market: refined, 30s.; crude, 28s., spot. **RESIN** shows further depreciation for all grades and the market has been very dull: B. 10s.; D. 10s. 6d.; F/G, 10s. 9d.; N. 14s. 9d.; W/G, 17s.; W/W, 18s., ex wharf. **TURPENTINE** has been dull all the week but quoted prices are about maintained: total London stocks, 16,011 barrels. On spot, 47s.; September-December, 39s. 6d. **WOOD.**—Hankow in barrels on spot is steady but quiet at 37s.

Industrial Chemicals, etc.

BUSINESS in this market continues on very limited lines but is as good as can be expected. Prices quoted are all fairly steady. Acetic acid is marked down £2 per ton, as follows: 80 per cent. technical, £34 5s.; 80 per cent. pure, £35 5s.; 99 to 100 per cent. glacial, pharmaceutical, £56 per ton, in glass demijohns; glacial, in barrels, £45 per ton, carriage paid in U.K.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

The Manchester Conference

SIR,—Three British Pharmaceutical Conferences in Manchester have I attended, with one indelible impression as a result—that it still remains an assemblage of the middle-aged and elderly, and fails to attract the younger generation. I recite this as a curious fact without any explanation, unless it is a suggestion that expense is a predominating preventive to many would-be attenders. [However, Mr. Grier congratulated the younger members present on their contributions to the Science Section last week.—EDITOR.] The papers submitted ranged over a very wide area of scientific pharmacy, more in keeping with the work of the laboratory and the manufacturer than the prosaic occupation at the dispensing counter; for, sad to say, the practising pharmacist in these days has little time to occupy himself with the application of pure science to his calling. Indirectly such contributions may construe themselves into bread-and-butter items, but for the majority of work-a-day chemists it is only possible to browse upon these papers, leaving their cultivation and production to those who are favourably circumstanced. And yet I like this indication of scientific culture as applied to the elucidation of pharmacy's many interests: if it does nothing else, the mind is taken out of the routine of the day, and can wander placidly amid ideas which, after all, are a great help towards broadening and lifting up pharmacy in general. I fear this dissociation of pure from shop pharmacy must continue: economic and social conditions have split up interests and callings into so many pieces that it is now impossible to have an all-round man capable of embracing all phases of his calling. Who shall say where any science ends in its application to the problems of dispensing?—Yours, etc.,

FRANK ENGLISH (27/7).

SIR,—The Conference paper by Messrs. Glass and Jones on "Pale Cresylic Acid and Lysol" serves as a reminder that it is all-important in the manufacture of preparations of this class to be sure of the nature of the raw material. When it is considered that linseed oil and alkali are brought into contact with a tar acid of varying constituents, it does not require much imagination to formulate an idea of what the resulting preparation may be; temperature and dilution with water—itself a reagent—should never be lost sight of as very important factors in association with a preparation of this type.—I am, etc.,

FESTINA LENTE (28/7).

The Use of Initials

SIR,—Initials which have by custom become familiarised as a convenient brief designation of such an important body as the British Medical Association should in all fairness, one would think, be restricted in use to that body as far as is reasonably possible. It is, of course, conceivable that there may be occasions when the same letters will be used colloquially to indicate something quite different, though familiar to the persons conversing or otherwise communicating with each other. The British Medical Association's moral copyright in the letters "B.M.A." was the subject of recent proceedings in the Chancery Division of the High Court (*C. & D.*, July 18, p. 64). Such excuse as was made by way of defence was unhesitatingly swept away by Mr. Justice Maugham, and I should imagine there will be general agreement that he very properly granted the injunction asked for. Those of us connected with the practice of pharmacy are so accustomed to talking and writing about the P.S.G.B., the R.P.U., the P.A.T.A. and so forth, that it needs but little reflection to show how desirable is the restriction of the various combinations so as to allow of their application to the particular bodies

intended and to nothing else. If any one of those combinations was to be exhibited over the window of a drug store, prompt action would certainly be necessary to restrain the owner of the shop from misleading use of the letters, and I should hope there would be no difficulty in obtaining an injunction against him. A useful public service has been rendered by the B.M.A. on this occasion.—Yours, etc.,

KRITES (27/7).

Ambiguous Insurance Prescriptions

SIR,—Your correspondent "*Scriptum*" (*C. & D.*, July 11, p. 57) does exhibit a remarkable frame of mind. His suggestion of the payment of one penny is so gross an act of meanness that were he running a business in my neighbourhood I should be extremely doubtful of the correct dispensing. I admire him for his "bravery and patriotism," for doth he not do well to hide his face under the *nom de plume* of "*Scriptum*"?—Yours, etc.,

W. LATHAM, L.R.C.P. Edin., etc.

Earlestown, Lancs.

Photographic Sales After Closing Time

SIR,—In your issue of July 25 (p. 90) is reported a case under the Shops Acts where a chemist was summoned for "an alleged contravention of the Early Closing Order" at Wallasey, and it is stated that the defendant showed the inspector "a letter from the solicitor to the Retail Pharmacists' Union advising him that he was entitled to sell films after closing time." It is the fact that I advised to this effect and it appears from your report that the justices upheld my opinion as they "ruled that the sale of films was not part of a chemist's business." They decided that the defendant had committed an offence because the notice exhibited was insufficient. I had not advised, and was not asked to advise, about the notice. Section 10 (2) of the Shops Act, 1912, provides that "where several trades or businesses are carried on in the same shop and any of those trades or businesses are of such a nature that if they were the only trades or businesses carried on in the shop a closing order would not apply to the shop, the shop may be kept open after the closing hour for the purposes of those trades or businesses alone, but on such terms and under such conditions as may be specified in the order." There is at Wallasey a Closing Order for chemists' businesses; but as, in my opinion, the sale of films was not a part of a chemist's business, I considered that the Closing Order did not affect it. I still think so. I should, perhaps, add that the general Shops Act hours apply to the sale of films; the trouble at Wallasey arose because the Closing Order required chemists' shops to close at 7 instead of 8.—Yours truly,

CYRIL H. KIRBY.

London, W.C.1.

Insurance Act Dispensing

SIR,—I support "*All Scripts*" (*C. & D.*, July 25, p. 135), as it is only logical. Our contract is with the Ministry of Health, and we are nationally recognised dispensers of National Insurance prescriptions. If chemists in areas which border on districts covered by different insurance committees went on all the panels, the expenses in printing the panel lists and the extra circularising—all official notices, etc., being sent to them in duplicate or triplicate (i.e., one from each area)—would be much increased. But administration expenses can always be found if the saving of them means a little work for the "administrators," i.e., the official staff.—Yours, etc.,

S. SAYLLIS (28/7).

Gift Schemes

SIR,—With reference to the letter of Mr. H. G. Tibbett in the *C. & D.* of July 25, I for one am very glad to see that Messrs. Radox have devised a gift scheme whereby we are not making a present to the public at our expense. In nearly all the previous schemes which have been brought out, the chemist lost his profit on the article given. We have not found the tobacco firms giving away free cigarettes for coupons; they always choose as a free gift something which does not affect their own particular business. I should like all these gift schemes made illegal; but failing this, let us take a leaf out of the other man's book by giving lines as gifts that we do not deal in ourselves. If some of the money spent on advertising these schemes was used to point out to the public the folly of buying the sixpenny size instead of the 3s. size, it might go a long way towards improving business generally.—Yours truly,

W. ELLIS.

Ilford.

Doctors and Discoveries

SIR,—This year the B.M.A. provides a mild sensation in its discussion of the attitude of the medical profession to medicines invented by its members. Hitherto there has been a strong prejudice against a practitioner exploiting for his own benefit any discovery he may have made for the alleviation of any form of human suffering. The debate, with its consequent resolution taken a week ago at Eastbourne, indicates a disposition on the part of the Association to view with less rigour than formerly the action of a medical man who seeks the protection of the patent laws, so as to prevent unscrupulous foreign firms or individuals from depriving him of the right freely to use his own discovery. But, in relaxing even in so slight a degree its previous expressions on this matter, it does seem that the meeting did not grasp the great significance of its action. Who is to adjudicate upon the question as to whether the patentee practitioner of the future did or did not take out a patent under proper conditions? If patents can be acquired with the permission of the Association, such patents are sure to pass into the hands of manufacturing firms who will thus acquire the enormous advantage of putting the productions on the market with the enhanced advertising value of Dr. So-and-so's invention. The possibilities are disquieting.—I am, etc.,

LONG VIEW (27/7).

The Marking of Hot Water Bottles

SIR,—In the provisions of the Order in Council which came into effect as from September 8, 1929, it is provided that all imported hot water bottles are to be marked with an indication of origin (a) on the article itself; or (b) on a label securely affixed; or (c) where it is customary to sell the article or expose it for sale in a case or other container or fixed on a card, on the case, container or card. Since the time of the Order in Council coming into effect on the above date, this Association has had considerable experience, in co-operation with its membership, in following the administration of the Order. It has been found in some cases that retail chemists have inadvertently sold foreign bottles without any indication of origin in the manner provided. . . . A peculiarity of the rubber hot water bottle (as in many other articles made of rubber) is that it is very difficult for even an expert to distinguish between a British and a foreign-made bottle from appearance alone. A manufacturing expert, by reason of his knowledge of moulds and working acquaintance with the foreign competitor bottle, may distinguish them by differences which are not observable very often to a retailer who has been handling, to advantage, moulded bottles over a number of years. British, Canadian and American bottles are invariably marked with an indication of origin. By deduction, therefore, it would follow that an unmarked bottle is, in the great majority of cases, of continental origin. Whilst the rule does not invariably apply, it can, with propriety and with justification, be urged that the reason why British, Canadian and American bottles were marked, even

before the Order in Council came into effect, with an indication of origin was that these productions, although indistinguishable in appearance from the continental bottle, were of relatively high quality, and therefore the manufacturer had no hesitation in being identified with the product. Indeed it might, with truth, be said that continental bottles were very often sent into this country unmarked, in the hope that such unmarked bottles would be taken as being in effect of British manufacture. Now that the Order in Council is in existence, chemists and their retail customers are protected against any such mistake; but we have reason to believe that unmarked bottles are still being sold in the shops of some retail chemists who themselves are unaware that they are, for the most part, continental productions. Such sales are contrary to the statutory obligations of the retailer in question; and we hope we may be excused in submitting to the chemist that the sale of unmarked bottles is, in all probability, contrary to Statute, incurs considerable penalty for default, and the product, moreover, is extremely likely to fail in service. There would appear to be no justification whatsoever why a manufacturer should not mark his bottles with an indication of origin were it not that he is afraid of the consequences of inferior bottles being laid rightfully to his door.

Yours truly,

JOHN HAWORTH,
Secretary, India Rubber Manufacturers' Association, Ltd.
Manchester.

Shop Hints

SIR,—In reading the article on "Uniformity in Shop Design" in the Commercial Compendium, one sentence on the interior struck me as being worth reprinting: "Care is taken to avoid the introduction of inharmonious features." Many chemists take a good deal of time and trouble to select a good design and to fit up the interior with suitable fixtures and showcases, and then proceed to cover them up with an assortment of cards of all kinds—showcards, display cards, and advertising slips. As these generally remain where they are hung, on the knobs of drawers, on the handles of the doors of glass cases (and I have even seen nails driven into good mahogany moulding), in the course of a few weeks the cards become fly-blown, those with goods on have a few sold off and those left on become dusty and dirty, and a fresh delivery means that new cards are hung over the old ones. This same thing may be noticed on counters. Apart from the slovenliness of such a method, where is the sense of displaying goods for sale and then hiding them with something else? What sort of medicine would a customer expect to receive from such premises? If the district is such that one must make a display of carded goods, why not find a space where a large board could be fixed, covered in baize or similar material, on which could be hung a series of cards, and see that they are kept clean and renewed before they are too empty? As to "Unit Display Methods," I agree that these are more suitable for good-class shopping centres; in a poorer neighbourhood it is usually more profitable to put in something of everything, and everything should be priced. This can be varied by making a few groups of the larger packings, but it will be found that in many pharmacies the window dresser tends to get into a rut. For this reason only I think that a one-week single display occasionally is a good means of attracting to one's window, although I have doubts whether it is directly profitable. This section of the Commercial Compendium is full of interest to the retail chemist, and not least is the advice on "Unpacking Goods." I have seen in some pharmacies goods unpacked on the centre of the shop floor, leaving straw and packing material lying about to the inconvenience of customers. Many wholesale houses now put small items in special envelopes for small goods; but there are still some who pack them loose in the straw, and it is very easy to overlook something, especially if the invoice is not to hand. Where there is no invoice a list of the goods should be made out, if there is no copy kept of the order.

Faithfully yours

SYSTEMATISE (27/7).

Dispensing Notes and Difficulties

Ung. Resorcini et Bismuthi Co., B.P.C.

SIR,—The formula given in the B.P. Codex for the preparation of this ointment has the following directions:—

"Dissolve the resorcin in the distilled water, and mix the solution with the bismuth subchloride, zinc oxide and starch to form a smooth cream, then mix the birch tar oil and oil of cade with the wool fat, and gradually incorporate the cream."

However, when the resorcin solution, bismuth subchloride, zinc oxide and starch are mixed a "smooth cream" does not result, but merely a sticky mass of dough-like consistency. Even with the starch alone a smooth cream cannot be obtained with such a proportion of water. It was thought that perhaps a better ointment could be obtained by using hydrous wool fat (substituting 55.7 parts for the 39 parts of wool fat), so that the water content of the ointment remained the same. Accordingly the resorcin was first incorporated with the hydrous wool fat, the oils were next mixed in, and then a mixture of the zinc oxide, bismuth subchloride and starch was added and the whole was thoroughly mixed. A more satisfactory result was obtained, but, nevertheless, the preparation was far from elegant, and became of a spongy texture in the course of a day or two. After some experiment it was found that the best result was obtained without the use of water, and the following formula gave satisfaction:—

Resorcin	...	...	...	8.00
Zinc oxide	...	...	...	3.00
Bismuth subchloride	...	...	...	3.00
Birch tar oil (by weight)	...	...	...	2.50
Oil of cade (by weight)	...	...	...	2.50
Starch	...	...	...	20.00
Wool fat	...	...	...	51.00

The resulting ointment will be found to be quite smooth and elegant. I should like to thank the directors of Potter & Clarke, Ltd., for permission to forward this note.—Yours, etc.,

W. A. N. MARKWELL, F.C.S.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

L. W. C. (14/6).—IODINE FOR PHEASANTS.—Iodine is best given as potassium iodide, in doses of $\frac{1}{2}$ to 1 gr. daily. The best way to give it is to mix a certain quantity in the food, estimating the quantity of the iodide, according to weight of food given; say, one pound of food would contain 16 gr. of iodide. This dose applies to birds a few months old, younger birds to get $\frac{1}{2}$ gr. daily. As there is no guarantee of how much each individual bird may consume, $\frac{1}{2}$ gr. on an average may be given with safety, and can be continued for an indefinite period.

G. V. T. (15/7).—FULLER'S EARTH CREAM.—We suggest the following formula:—

Spermaceti	...	...	...	gr. 32
White wax	...	...	...	gr. 32
Almond oil	...	...	...	3ives
Lanolin	...	...	...	3j.
Distilled water	...	...	...	3ij.
Prepared fuller's earth	...	...	...	gr. 180

W. H. L. (22/6).—TENNIS RACQUET HANDLE POLISH.—This has the general properties of a soft variety of Japan wax.

J. D. (30/8).—CEMENT HARDENER.—This powder is stated to be "used by plasterers for hardening cement, 8 ozs. of the substance being mixed with a 2-cwt. bag of cement." It consists of combined magnesium and calcium carbonates 74 per cent. and gelatine 26 per cent.

Legal Queries

G. A. (10/6).—A registered dentist is authorised to be in possession of "dangerous" drugs, but is not authorised to supply drugs or preparations otherwise than by personal administration by himself to persons receiving treatment from him. Consequently a registered dentist is entitled to purchase cocaine hydrochloride in accordance with the provisions of the Dangerous Drugs Act in order to make up a solution for use in his practice.

R. W. (15/7).—Certain conditions are not regarded as ailments by the Board of Customs and Excise, provided they are not used in such combinations or with such qualifying words as will create liability to medicine-stamp duty. Among these figure "chapped hands," "cracked lips," "dandruff," "tender feet," "redness of the skin." On the other hand, chilblains, cuts, sores, burns, are definitely ailments, and the inclusion of these words would render the article liable to medicine-stamp duty. The title "Healing Ointment" is in itself dutiable.

Weights (18/7) sent his counter weights to the local Inspector of Weights and Measures to be tested. When they were returned he found that the $\frac{3}{4}$ oz. weight was $1\frac{1}{2}$ grain heavy. When he pointed this out to the Inspector, the only reply that he received was that the weight had been "passed." Can he compel the inspector to put the weight right? [It is the practice to allow a certain "tolerance" of excess weight in officially passing weights as correct; but an excess of $1\frac{1}{2}$ grain on a $\frac{3}{4}$ oz. weight is, we understand, more than is usually approved. As the Inspectors of Weights and Measures are employed by the local authorities, "Weights's" only course, if he considers himself to be aggrieved, would appear to be to lay the facts before the local authority. His difficulty will be, however, to establish that his estimate of the weight is accurate.]

Serum (13/7) bought a business ten years ago. The gas company was informed that the outgoing tenant would pay for the gas consumed up to the date of the transfer of the business, and the company's representative took a reading of the meter on that day. Later, because the amount due from the previous tenant could not be recovered, the gas company compelled "Serum" to deposit the amount by threatening to withhold a supply of gas unless he did so. Is he now entitled to a refund of the deposit? [From the circumstances stated, it would seem that "Serum" was not liable to pay for the gas consumed previous to the date upon which he took possession of the premises and is entitled to have the deposit refunded. But, in our opinion, as more than six years have elapsed since the transaction, he may be barred by the Statute of Limitations from taking proceedings for its recovery.]

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," August 15, 1881

The International Pharmaceutical Congress

No one can question the brilliant success of the International Pharmaceutical Congress [held in London on August 1-3] as a social gathering. It is not hypercritical to say that in the main the serious work which filled the half-dozen sessions of the Congress had a somewhat artificial air. . . . There was no pretence of gaining any actual result, except in one particular. The prospects of an International Pharmacopoeia are, perhaps, a little advanced, though that is putting the matter quite sanguinely enough. When it is remembered that this object has been sought after now through five Congresses and fifteen years, it cannot be said to be very good progress to have only got to the point of naming two dozen gentlemen as a Commission to correspond with each other over two hemispheres. . . .



[Commenced C. & D., July 5, 1924]

Vacuum Cleaning.—Although its use has developed considerably of recent years, vacuum cleaning can hardly be said to be a product of modern hygiene. Vacuum cleaners of the bellows type are said to have been found in Pompeii, and for many years pneumatic, steam and hydraulic systems have been used, followed more recently by reciprocating and rotary air pumps, and later still by turbines. Modern vacuum cleaners may be divided roughly into three types; household appliances, portable turbines, and turbo-exhauster plants used in conjunction with fixed pipes distributed throughout the building. For the ordinary small chemist's shop a cleaner of the household type (of which there are considerably over a 100 varieties) is quite suitable. Various attachments are obtainable with the best of these which enable closely-packed shelves and cases to be freed from dust without removing the stock or display. With some types it is also possible to freshen the air in the shop periodically by disconnecting the suction appliances and setting the motor in action. Portable turbine cleaners are built largely of aluminium. For business premises, comprising, say, ground and first floors and a showroom or storeroom in the basement, this type is very suitable. For factories, warehouses, stores and similar large buildings, turbine vacuum cleaning machines of the portable, semi-stationary or central stationary, type are desirable. The type used depends mainly upon the size of the building. Where a fixed central plant is installed, this is generally located in the basement and pipes are run to all parts of the building. A recent innovation has been the use of acetylene-welded tubes, instead of the ordinary steam or gas barrel. These tubes have sleeve joints which considerably reduce the risk of a choke. The hose connections in the fixed piping have self-sealing lids, so that immediately the tapered connectors on the portable hose are removed the lids close and the suction ceases. With one type a special feature is made of silent hose terminals. For the turbo-exhauster system the two advantages claimed are, first, that it deals with a high volume of air at a vacuum which renders it equally effective for widely varying cleaning conditions; and, secondly, that where a multiple operator cleaning plant is in use, as each operator disconnects his hose the air volume is reduced, and this, automatically reducing the power consumption, effects economy in current consumption. One system gives a specified air displacement and suction for each operator, which is varied to meet the specific requirements of each individual installation. In some modern installations the use of a suction nozzle at the end of a flexible pipe held by a man or woman is dispensed with; traps into which rubbish and dirt can be swept are arranged in suitable positions in the floor, and thence conveyed by suction through ducts. With this system the dust-laden air is discharged into a separator in which the dust is delivered into a suitable receptacle.

Valance.—More often to-day known as a pelmet, the valance is used extensively in shop windows, primarily as a means of concealing the lighting equipment; it serves the subsidiary purposes of decoration and publicity. Valances are now produced in a large range of materials, including paper, cloth, glass, plywood and metal. Those of paper are not generally to be recommended for the chemist's window, as they give it a cheap appearance. The cloth varieties are usually produced in neutral-tinted materials, backed by buckram or some other stiffening fabric, and fitted with hori-

zontal steel straps and end straps to eliminate the curling of the ends which would otherwise be caused by the heat of the lamps fitted behind it. A monogram or lettering is often incorporated into the design in a thinner material of a different colour, so that it has a stencilled effect and becomes illuminated when the lights are turned on. Pelmetts in engraved, etched or sand-blasted glass in "jazzy" designs have become very much the vogue; but their ornamental effects are often overdone, and they are likely to clash with the simple and more dignified lines of the chemist's shop front. One of the latest types of glass pelmetts is produced in a moulded glassware cast with dainty relief designs or letters. This is much more suitable for use by the retail chemist, for this type of glass blends with most shop-front designs and materials. For the shop front of aluminium, stainless steel or white metal, pelmetts of metal-faced plywood are excellent. The thin veneer of metal adds very little to their weight, yet gives the same effect as the solid metal. Metal valances are generally in the form of narrow strips of Florentine bronze, oxidised silver or aluminium, with stencilled letters backed with white or coloured opal glass, and fitted at the back with a lamp channel and mirrored reflector. Tubular lamps are frequently used with this type of pelmet. The lettering becomes automatically illuminated by night.

Valency.—The word "valency," as applied to the chemical elements, is one conveying a quantitative conception of its atomic combining power. Taken in its simplest sense, the valency of the elements may be thus illustrated. A monovalent element has one unit of combining power, or one combining bond; a divalent element has two such units, and so on. A monovalent element will combine with one atom of a monovalent element, and a divalent element with two such elements. This is symbolically illustrated as follows: H—H is the hydrogen molecule—hydrogen being a monovalent element, H—O—H, water, being a combination of divalent oxygen with two atoms of hydrogen, and so on. The valency of a given element varies according to the other elements with which it is combined, very few—hydrogen being one—showing a constant valency. With certain elements, such as beryllium and aluminium, hydrogen does not form a compound of the two elements, and therefore, towards them, has no valency. The variation in the valency of many of the elements is very wide, and to almost any rule that can be formulated there are numerous exceptions. Sulphur in combination with oxygen has a valency of 6, with chlorine 4, with hydrogen 2, and with iodine 0. The term "valency" thus has a somewhat equivocal meaning. Similarity in chemical properties is to a great extent dependent on similarity in valency. For example, trivalent aluminium, chromium and iron give compounds of identical crystalline form, and very similar in solubility, reactive power, etc. It may, indeed, be said that one of the reasons for the marked analogy between elements of the same groups in the periodic system is that they possess equal valencies, and the same variations in valency. This constitutes the fundamental principle of chemical similarity. The ability to combine with molecules which can exist separately (and therefore might be assumed to have all the atomic valencies satisfied), is often called a secondary or auxiliary valency, resulting in compounds which have from time to time been described under various meaningless names, and which are to-day spoken of as co-ordinated compounds. The study of valency in relation to the electronic structure of the atom is of considerable interest.

Valentine Displays.—Greetings or small gifts on "Valentine's Day," February 14, obtains scant recognition from the present generation. The advertising and window-display appeals arranged by the stationery trade have given it, however, a reasonable degree of prominence. For this reason chemists may find it worth while to take advantage of the susceptibility of the public in regard to old customs. Displays of perfumery and toilet requisites, with suitably worded messages, may be made; and the novelty of the appeal may in itself prove sufficient to create new sales.

The C.&D. Commercial Compendium

Valerian.—The dried rhizome of *Valeriana officinalis*, Linn. (Valerianaceae), a herbaceous, perennial plant widely diffused over Europe and Northern Asia. It is common in England, in moist situations or on dry, hilly ground, attaining a height of 1–1.5 metre and producing terminal corymbs of white or pinkish flowers. The wild plant exhibits divergent forms as regards the height of the stems and the number and shape of the leaves. For commercial purposes it is cultivated in England (Derbyshire), Belgium, Holland and the North of France; the root is usually harvested in the autumn. The English root has a higher market value than that imported from the Continent. Valerian is an ancient medicine, called phu by the Greeks and Romans; Pliny and Dioscorides describe it as a kind of wild nard. Its name is probably derived from valere (to be well), in allusion to its medicinal uses. "Heal all" and "Guerit-tout" are old names given to the plant in England and France. In Alphita, a list of drugs and spices published in the thirteenth century, valerian is synonymous with Fu and Amantilla; it is referred to by Isaac Judæus (1515), Constantinus Africanus (1539), and it is figured by Fuchs (1542) as phu Germanicum. Gerard (1545-1607) tells us that among the poorer classes in the North of England no broth or pottage was worth anything without it. The odour was not considered objectionable in his day, as it was the custom to lay the root among clothes as a perfume. As a medicine valerian has had a wide reputation for relieving hysteria, although in the East this and allied species are mostly esteemed for their fragrance. The official drug is the dried root or rhizome, with a short central portion the size of the little finger, 2 to 4 cm. in length and 1 to 2 cm. in diameter. Externally it is yellowish or dark brown, crowned with stem bases and surrounded by numerous dull-brown brittle roots 2mm. in diameter. Internally the rhizome is firm and horny, and whitish or yellowish in colour. A transverse section shows an irregular outline with the narrow bark separated by the dark line of the cambium. The taste is camphoraceous and somewhat bitter, but the chief characteristic of the root is the odour which on drying acquires the powerful smell of valeric acid. The ash should not exceed 10 per cent. In Paris the roots have been adulterated with roots of *Scabiosa succisa*, but they are much shorter, and have a starchy fracture and are inodorous.

COMPOSITION AND PROPERTIES.—The variation in the quantity and quality of the volatile oil is due to the local situations—moist or dry—in which the plant is grown and to the condition and age of the roots. Continental roots yield between 0.5 and 0.9 per cent. of oil, Dutch and English roots about 1 per cent. Sonderberg (1918) obtained between 2 and 3 per cent. Valerian oil has a pale greenish colour; it is levorotatory towards polarized light, s.g. about 0.934; and it possesses the pungent odour of valerian. The oil contains pinene, camphene, borneol, bornyl formate, bornyl acetate, bornyl isovalerate, together with a sesquiterpene and an alcohol, $C_{15}H_{16}O$. It has been ascertained that valeric acid does not pre-exist in the oil, but is gradually liberated by decomposition of its borneol ester. Valeric acid, the earliest known constituent of the oil, does not agree with the normal acid, but is rather iso-valeric acid, found in the roots of *Archangelica officinalis* and *Viburnum opulus*. Iso-valeric acid is an oily liquid, having the odour of stale cheese, boiling at $170^{\circ}C$; its salts are usually greasy to the touch. The oil exposed to the air gradually acidifies and acquires the odour of valeric acid. In a similar way the fresh valerian root has a faint odour, but by the action of an oxidate on the bornyl-isovalerate the free acid is liberated and gives the unpleasant odour of the drug. Waliszewski (1890) found two alkaloids in valerian root, one chatinine soluble in ether, and valerine soluble in chloroform. In 1907 Chevalier indicated the existence of a volatile alkaloid in the drug. Goris and Vischniac (1921) confirm these statements. The amount of alkaloids, however, does not exceed 0.1 per cent., and they do not appear to have any great physiological activity. The same may be said with regard to iso-valeric acid and the valerates, which prove to be

medicinally inactive. The virtues of the root appear to be lost during the drying process, and probably this is the reason of the very uncertain action of the drug and of its falling into disrepute. Valerian is one of the oldest of all remedies for nervous unrest, hysteria and hypochondriasis. Trials to replace the drug by synthetic products are not satisfactory, and preparations of the fresh drug are being found more efficacious than any of its constituents separately. Pouchet and Chevalier (1904) showed that the fresh juice of valerian root has a powerful sedative action on the nervous system, and at the same time acts as a cardiac tonic. In post-war medical use in Germany it was administered as a soporific and sedative. Smoldlaka (1921) turned his attention to the most suitable galeanical preparations of the drug for obtaining therapeutic results, and found that fresh infusions were helpful in hysterical attacks and partial paralysis, and the tincture kept better than the concentrated extract. When carefully collected valerian preparations are still valuable as an antispasmodic, to stimulate the brain and paralyse the excitomotor centres. Dr. Manson, in a paper on "The Therapeutic Value of Valerian" ("British Medical Journal," November, 1923), says it is a "very valuable drug in general practice, capable of restoring mental efficiency and alleviating mental misery with the added advantage of having no habit-forming properties."

ALLIED DRUGS.—*Japanese Valerian*, Kesso, the rhizome and roots of *V. officinalis*, var. *latifolia*, Miq. The rhizome is small, erect, crowned with scars and remains of the stems, brownish in colour, and an odour resembling that of European valerian, but much stronger and aromatic. The yield of essential oil is from 6 to 8 per cent., similar in taste and smell to the ordinary oil, but with a higher specific gravity of 0.996. The oil contains pinene, borneol, bornyl acetate, bornyl isovalerate and Kessyl acetate. *Indian Valerian*.—The rhizome of *V. Wallichii*, DC., a plant of the Himalaya and Khasia mountains and of Western and Northern China. This drug appears to be sumbul-jibabi of the Arabs and rishai-wala of the Persians; it is probably the fragrant drug called tagara by Sanskrit writers. The rhizome in India is more largely used as a perfume than as a medicine; it enters into preparations for the hair and is burnt as incense. It has a strong disagreeable odour and an unpleasant, bitter and camphoraceous taste. Lindenberg examined the root in 1886, and found its composition practically identical with that of the European drug; it contained a higher amount of volatile oil. Bullock (1925) obtained 0.3 per cent. of oil yielding formic, acetic and valeric acids. *Valeriana Phu*, Linn., a plant of Southern Europe, Western Asia and Caucasia. This plant is probably the origin of the drug described by Bauhin as *Valeriana major odorata radice*, by Tabernæmontanus as *Phu verum*, and by Fuchs as *Phu magnum*. The plant is allied to *V. Dioscoridis*, Sibth. and Sm., which is said to yield the ancient Grecian valerian or real phu. The root smells like nard, and according to Dr. A. Rees (1819) it is much more pungent and peppery, more durable, and has a less nauseous odour than the official valerian. The chief use of phu was in disorders of the nerves; it formed an ingredient in the celebrated mediæval Venice treacle, but is now obsolete. *V. celtica* and *V. italica* also yield medicinal roots, and these facts show that valerian is a drug used throughout Europe and Asia as a perfume and for alleviating nervous disorders. *Nard, spikenard*, the root of *Nardostachys jatamansi*, DC., a plant of the Alpine Himalayas, Tibet and Western China, allied to the valerians. It was formerly called *Valeriana spica* and *V. jatamansi*, and yielded the Assyrian nard, Nard de la Madelaine, nardus of the Greeks and Romans and the spikenard of the Scriptures. It is highly esteemed in India and the East as a perfume, and was formerly conveyed via Arabia to countries on the Mediterranean. The rhizome is short and thick, dark grey in colour, and is distinguished from valerian by being enclosed in a mass of dark bristly fibres, the remains of the leaf-stalks. It yields about 1 per cent. of a volatile oil having the fragrant odour of a mixture of musk and patchouli.

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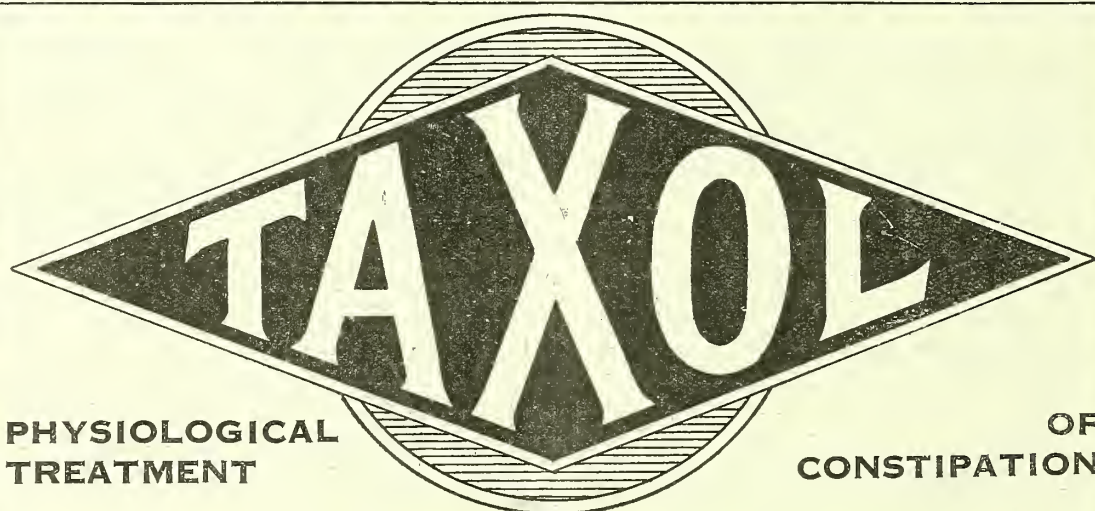
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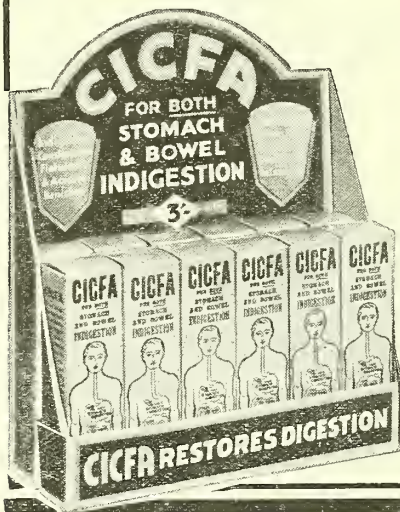
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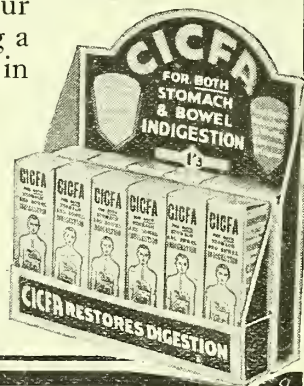
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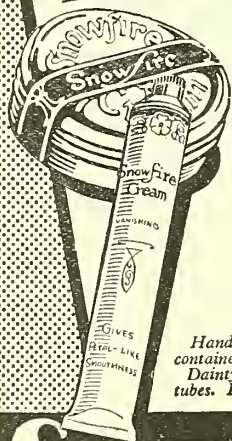
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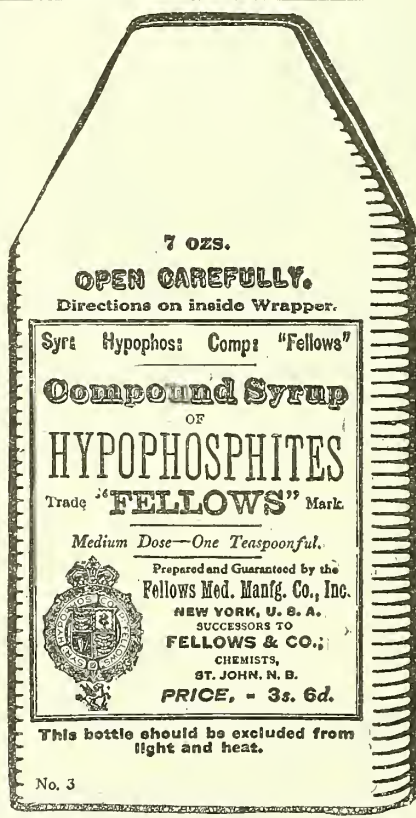
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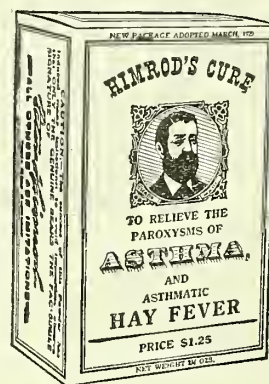
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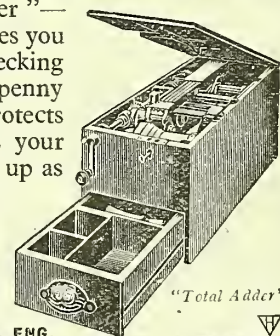
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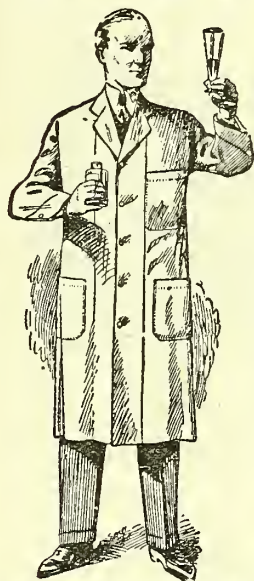
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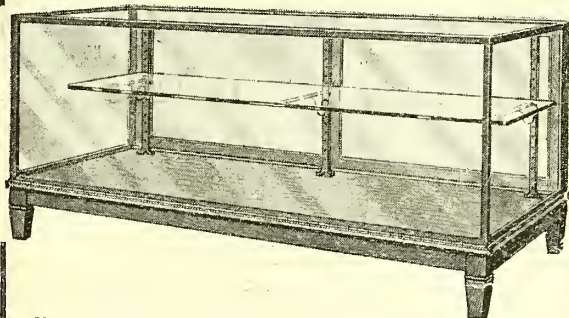
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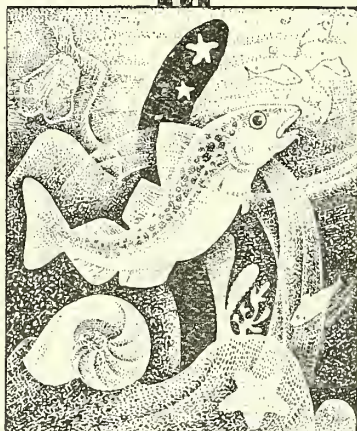
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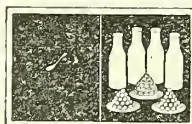
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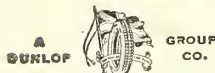
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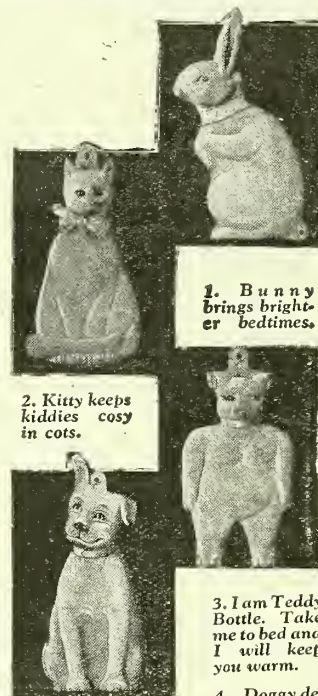


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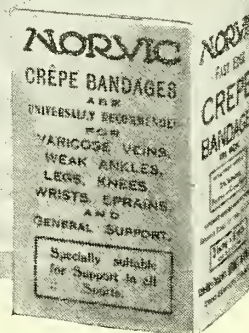
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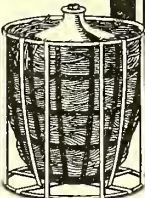


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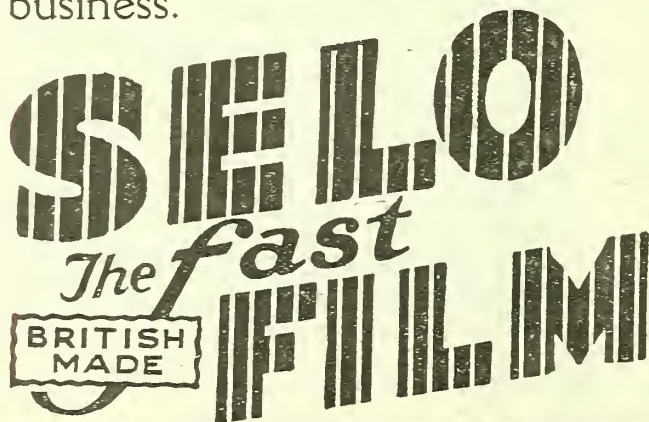
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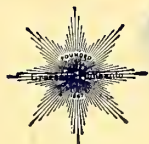
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28 ESSEX ST.
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AUGUST 1, 1931

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9.—WESTERN COUNTY.—General Retail Business, with Wine Licence; returns last year about £2,000; premises occupy a premier position; the property may be purchased for between £1,100 and £1,200, or a lease will be granted at a rental of £80 per annum; stock worth £400; fixtures and goodwill £500.

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2.—WEST MIDLANDS.—Well-established Light Retail, in good market town; returns average £3,200; good profits; stock and fixtures worth £1,500; price £2,250.

3.—NORFOLK.—Old-established Business, in busy market town; returns exceed £2,300; good profits; large shop and house; rent £80 on lease; heavily stocked; price £1,500.

4.—LIVERPOOL.—Good-class City Business, returning about £1,500 under manager; plenty of scope; handsomely fitted pharmacy; long lease; price £850; worth attention.

5.—CUMBERLAND.—Mixed Country Retail, with Wines and Spirits; returns £2,160, increasing; net profit £650; nice house; no opposition; price, with property, £2,585, or offer.

6.—HANTS.—Sound Medium-class Cash Retail, in pleasant growing district; returns £1,357; scope for increase; splendid modern house and large garden and garage; stock and fixtures worth £750; price, with property, £2,350; part can remain on mortgage.

7.—LONDON, N.W.—Profitable Cash Retail, in main road; returns nearly £2,200; audited figures; fine corner shop; long valuable lease; excellent stock; price £1,650; personally recommended.

8.—LONDON, W.—Good-class Retail and Dispensing, returning £2,200; gross profits 40 per cent.; double-fronted shop; modern fittings; well stocked; price £1,350, or near offer.

9.—LONDON, S.W.—Sound Drug and Photographic Store; fine chance for qualified; returns over £1,300; net profit £382; audited accounts, low expenses; price £450 or offer

STOCKTAKING VALUATIONS.

We are prepared to undertake this work at special low rates and invite early applications; we are now booking dates for August onwards.

Estab. 1870.

Telephone: Terminus 3574.

THE ASSOCIATION OF MANFG. CHEMISTS, LTD.

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BUSINESSES FOR DISPOSAL.

1.—SURREY.—Chemist's business in residential district, held on lease 7, 14, 20 years, at £98 per annum. Established 4 years. Returns £26 per week. Price asked—Lease and Goodwill, £350. Fixtures and fittings, £600. Stock approximately £100. Further particulars on application.

2.—LONDON, S.E.—Acid, Drug and Chemical Business for quick disposal. Premises held on weekly tenancy at 14s. per week, returns average £25 per week. Stock and fixtures estimated at £500. Offers invited.

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(C1) £10,000 TURNOVER IN RETAIL PHARMACY.—Owing to contemplated retirement, an old-established city pharmacy with high-class connections and usual distinctive features, may shortly be available for sale by private treaty; the premises occupy a commanding site in one of the leading business thoroughfares, and are held on lease at a rental commensurate with returns and position. The proposition offers unique opportunity for a "live" man, or for a partnership; capital requirements will approximate £8,000-£8,500, and pharmacists personally interested are invited to write in confidence for initial information: reference to Bankers should also be given.

(C2) WORCESTERSHIRE.—Old-established retail and dispensing business occupying a main position in country market town; present turnover approx. £30 weekly, with prospects of early increase to £40; excellent living accommodation; rent £75; lease by arrangement; recently re-fitted throughout; genuine personal reasons for disposing, and as early removal is essential, the owner is prepared to sell at a sacrifice; the opportunity is an exceptional one and interested pharmacists are advised to make early investigation, for which every facility will be allowed. There is practically no unemployment in the district.

(C3) LIVERPOOL.—Owing to managerial difficulties and other business interests an opportunity has arisen whereby an exceptionally good branch pharmacy with good living accommodation may be acquired; returns for last financial year exceeded £2,000; rent, £100 on lease; main road situation; imposing premises well stocked and elegantly fitted; capital requirements will be in the region of £1,500, and the business having been the subject of recent careful investigation, is confidently recommended to prospective purchasers, as constituting a thoroughly sound and profitable investment.

(C4) YORKSHIRE (WEST RIDING).—Exceptional opportunity for chemist possessing foresight and initiative to acquire established pharmacy and property at a figure considerably below market value; undoubted scope; excellent position; present returns £20 to £25 weekly should be capable of double that figure. The business was for some time rather badly neglected, but under personal proprietorship the possibilities are well apparent; purchase price for business to include value of stock and fixtures only; property by agreement; post office could probably be obtained if desired.

(C5) CHESHIRE (EXCELLENT OPPORTUNITY FOR BEGINNER).—Pharmacy well capable of further development; situated in residential district, close to well-known seaside resort; owner going abroad on doctor's orders; main road situation; flat above premises can be rented, if desired; present net profits £4 weekly;

accountant's figures available; purchase price approximately £600. This is a perfectly straightforward proposition that has been personally investigated, and is recommended to pharmacists with limited capital who can afford to await further developments.

(C6) LINCOLNSHIRE.—Retail and dispensing business showing returns of approximately £2,250 per annum; rent, £110; lease, 12½ years unexpired; further particulars on application.

(C7) LONDON, EAST.—Good family business doing £35 to £40 weekly; N.H.I. dispensing; Kodak agency; living accommodation (self-contained); stock and fixtures estimated at £750; further particulars on application.

(C8) HEREFORDSHIRE.—Old-established family and dispensing business; average turnover approximately £3,200 per annum; rent £100 on lease; situated in busy thoroughfare and within easy reach of growing residential district, personally visited and recommended.

(C9) SOUTH-EAST MIDLANDS (BUSY INDUSTRIAL TOWN).—In order to take up a good position outside pharmacy, proprietor must sell immediately old-established business in busy street, turnover last three years, £2,586, £2,642, £2,636; net profits as audited accounts, £470, £482, £488. For a quick sale exceptional terms will be given to a purchaser. Stock and fixtures can be taken at valuation, and a nominal goodwill agreed. The total ingoing would be approximately £1,500. Good lease with excellent living accommodation. Immediate investigation recommended.

(C10) LEICESTERSHIRE.—Pharmacy recently converted from Drug Store, showing steady development; main road situation; entirely unopposed; low overhead expenses; business and property can be purchased for £525 or alternatively premises can be rented for £26 per annum; the proposition has been the subject of investigation, and should constitute a splendid opportunity for a beginner to acquire and develop.

(C11) TEES-SIDE.—Good retail and dispensing business; present turnover approximately £1,750 per annum; net profits, £480; good living accommodation; rent £110 on lease; bona fide reasons for wishing to dispose.

(C12) DORSET.—Good retail and dispensing business situated in main street of small country town; present returns, £25 to £30 weekly; rent, £72 on lease; lock-up shop; purchase price approximately £600.

(C13) LEEDS (SUBURB).—Undeveloped, pharmacy in growing district; modern premises well fitted and of good appearance; present turnover approximately £14-£15 weekly; rent, £40; may be acquired for value of stock and fixtures, less 20 per cent.

JOHN BRIERLEY, F.N.A.A.CHEMISTS' VALUER AND TRANSFER AGENT,
135 Queen Street, Newton Heath, MANCHESTER**I Specialise in Valuations, Stocktaking and
Business Transfers.**

"Expert Service, Quick Results."

(Phone: Failsforth 1913)

BUSINESSES FOR DISPOSAL.6s. for 50 words or less; 6d. for every additional 10 words
or less, prepaid. (Box No., 1s. extra.)**BLACKPOOL SUBURB.**—Well-established Chemist's Business (8 years) with excellent House for Sale; books kept from the beginning; growing district; increasing returns; Kodak Agency; limited shopping area. Full particulars supplied to *bona-fide* inquirers. Apply in first case to 196/22, Office of this Paper.**CENTRAL LANCASHIRE.**—Chemist offers old-established Business, situated in busy thoroughfare, for half cost of fixtures and fittings; no goodwill; buyer can take any stock he requires at cost; present takings over £20 weekly; lease if required; moderate rent; owner wishes to retire. 194/8, Office of this Paper.**EAST HAM.**—Widow must sell genuine Family Retail Business; N.H.I., Photography, etc.; working-class district; takings, under management, over £1,000, plus N.H.I.; good living accommodation; moderate rent; £575 all at, or near offer. Further particulars to genuine buyers only, or view any time by appointment. Fookes, 34 Vicarage Lane, East Ham.**KENT COAST.**—Modern Store Pharmacy; best position main street; smartly fitted; double-fronted; official connection; all-the-year-round cash business, showing steady increase; established two years; present returns average £40 weekly; well-arranged flat over; long lease; rent £200 per annum; price £2,500; part could remain. "W." 196/28, Office of this Paper.**LANCASHIRE Seaside Resort.**—Established good-class Pharmacy for Sale; well fixtured and stocked; residential district; rent and rates low; long lease; turnover £1,150; certified accounts; excellent opportunity to introduce Optics and Kodak Agency; £450. 196/24, Office of this Paper.**LONDON, W.1.**—Live Business for disposal, just off main shopping street, taking about £5,000 per annum; old established; a real snip. What offers? Interview by appointment. 186/7, Office of this Paper.**LONDON (East).**—Drug Store and Herbal Business in working-class district; £7 per week net profit, under management; turnover £648; rent £45; sub-let £39; rates £21; lease 11 years unexpired; Prescribing £5 per week; proper accounts kept; good reason for disposal; established 10 years; herbal knowledge easily acquired; price £400 all, or near offer. Apply "R.", 309 London Road, Croydon.**LONDON, S.W.**—Lock-up Shop; outside busy railway station, tram and bus route; General Retail and Dispensing; Kodak and Ucal Agencies; under management; rent only £39 per annum, inclusive of rates; present returns at the rate of £1,000 per annum; beautifully fitted and up-to-date stock; goodwill and fixtures £400; stock at valuation, £250 to £300. Reply 193/25, Office of this Paper.**LONDON, S.W.**—£425, including 12 years' lease; rent £65, covered by sub-let portion; Kodak Agency and N.H.I., for which there is good scope; good front; electric light and gas; busy thoroughfare. "Chemist," 126 Stephendale Road, Fulham, S.W.**LONDON, N.W.**—Small one-man Pharmacy; takings £12-15 weekly, increasing; good scope for chemist with small capital; lock-up shop; rent 15s. weekly; N.H.I.; low price for quick sale; no near opposition; good photographic opening; £150 or near offer. P.C.B. 61/28, Office of this Paper.**MANCHESTER.**—Excellent corner Business for Sale; long lease; sound investment; plenty of scope; principals only. 189/40, Office of this Paper.**NORFOLK (near sea).**—Old-established Retail, N.H.I., Photographic, Agricultural; scope for Optics, etc.; wide district unopposed; cosy house; rent and rates under £50; long lease; easily worked single-handed; suit owner fond of country; profits over £5 per week after all expenses paid. Apply 194/19, Office of this Paper.**S. F. CLARK** CHEMISTS' VALUER
and TRANSFER AGENT

34 Marksbury Av., Richmond, Surrey Phone: Richmond 2210

S.W.—Turnover £2,046, 17 years' lease, rent £80, price £1,450, or near. W.—Working class, returning £1,500, price £800, a. a. E.—Turnover £1,250, 20 years' lease, rent 32/6, sublet 27/6, price £550 a. a. Middlesex—Main road, returns £2,126, house, garden, £1,050. Surrey—£600, or near offer, secures small main road position, with scope. Enquiries invited for other propositions.

NORTH STAFFS.—Country Business for Sale; can be purchased on easy terms; suit beginner; low rent; lease; turnover approximately £1,000 per annum; price £480. For full particulars apply J. Paterson Brodie & Son, Incorporated Accountants, Moor House, Burslem, Stoke-on-Trent.**SOUTH COAST.**—Recently established Pharmacy in thickly populated district; no near opposition; returns small, but steadily increasing; good position and a real chance for qualified man; particulars to *bona-fide* inquirers only; first reasonable cash offer secures. 194/28, Office of this Paper.**SOUTHPORT.**—Small Pharmacy, doing £14 weekly under manageress; price, valuation of stock and fixtures; excellent opportunity for young man or lady. Full particulars and reason for disposal, 196/25, Office of this Paper.**SOUTH WALES.**—Recently acquired Chemist's Business for Sale, a lock-up shop situated in the best street in a market town; long lease; excellent opportunity for Optician; daily bus service from all parts; good reasons for disposal. Full particulars on application. 194/2, Office of this Paper.**SURREY (Market Town).**—Cash Retail and Dispensing Business; Kodak Agency, N.H.I.; double-fronted shop, excellent main road position; well fitted and stocked; returns average £20 per week; lease 17 years; rent £100, including house over; price all at £800; part deferred if desired; bankers' references, please. 196/11, Office of this Paper.**SUTTON (Surrey).**—Recently established Pharmacy; double-fronted, lock-up shop, nicely fitted and stocked; Kodak Agency; turnover £40 per month; moderate inclusive rent; rapidly growing neighbourhood; owner wishes to sell owing to health breakdown; stock and fittings approximately £375. 194/16, Office of this Paper.**WALES (West Coast).**—Lock-up Drug Store for disposal; no Dispensing; good start for young chemist to add Dispensing and Drugs; rent and rates 7s. weekly; increasing returns; all new stock and new fittings; banker's reference, please. 195/11, Offices of this Paper.**WALTHAMSTOW.**—Drug Stores for Sale; fixtures and good stock; no opposition; excellent position; offer for quick sale; no goodwill or premium, or would sell fixtures and stock at valuation; urgent; accommodation if required. 195/1, Office of this Paper.**A MONEY-MAKING** opportunity occurs in the Midlands for a smart young chemist with £375 to take over an up-to-date City Pharmacy on a prominent corner; well stocked and fully fixtured; Kodak Agency. Write for particulars, 195/9, Office of this Paper.**OLD-ESTABLISHED** Business in main thoroughfare; in present hands over 40 years; shop and seven rooms over; lease 21 years; rent £275; price £500; stock at valuation; illness only reason for disposal. Apply, Frank Swain, Estate Offices, 170 Notting Hill Gate, W.11.**SOUND,** progressive Business, with plenty of scope; 12 miles south-west of London; long lease; comfortable house, in new repair; small garden; price £950 cash; owner entering Wholesale. 196/21, Office of this Paper.**UNIQUE** opportunity for fully qualified Chemist to acquire business on easy terms in new residential district. Apply Fletcher, Roseacre Office, Lytham Road, Blackpool.**WONDERFUL** opportunity for Chemist to acquire a high-class Dispensing and Photographic Business, with excellent prospects; entirely Cash trade; beautifully fitted; good saleable stock; modern living accommodation; busy main road; low overhead expenses; price £600; offer considered or part by arrangement; good opening Optics; would suit young pharmacist. Apply "Midlands," 196/4, Office of this Paper.**£700.**—THIS sum will purchase stock, fixtures, fittings and goodwill of nice compact Retail Business in West Riding town; annual turnover for past three years, under management, £1,250; rent £40; no agents. 191/13, Office of this Paper.

BUSINESSES WANTED.

GOOD-CLASS Business wanted in London, Suburb preferred; £2,000 cash and any balance by instalments. Please give details of returns, etc., to "Chemist," 124 Haviland Road, Boscombe.

LONDON or Home Counties.—Pharmacist, with ready cash available, requires sound, progressive Business; necessary capital at disposal to acquire concern with turnover up to £5,000; must be capable of investigation and returns should not in any case be less than £2,000; quick transaction for suitable proposition. All replies treated in strict confidence. 189/718, Office of this Paper.

WANTED, Businesses in London and Southern Counties, returning upwards of £40 weekly; cash buyers waiting; strictest confidence observed. Apply Orridge & Co., 56 Ludgate Hill, E.C.4.

WANTED, by private Chemist, medium-class Business, returning about £1,500; neighbourhood Kent, Surrey, Sussex, or near, including Coast; good house essential; fair rental or purchase. Particulars in strict confidence. 195/31, Office of this Paper.

WOLVERHAMPTON DISTRICT.—Sound Business required, preferably with scope for extension, by pharmacist anxious to move for domestic reasons; turnover should not be less than £1,500, but any good proposition will receive consideration. Replies treated in strict confidence. 189/719, Office of this Paper.

PATENTS.**PATENTS AND DESIGNS ACTS, 1907 TO 1928.**

NOTICE is hereby given that Louis Freedman, of 822 Central Avenue, Far Rockaway, New York, United States of America, seeks leave to amend the specification of Letters Patent No. 347,126 granted to him for an invention entitled "Remedial Preparations for Application to the Hair and Scalp."

Particulars of the proposed amendment were set forth in No. 2,218 of the Official Journal (Patents), published on July 22, 1931.

Any person, or persons, may give Notice of Opposition to the amendment by leaving Patents Form No. 19 at the Patent Office, 25 Southampton Buildings, London, W.C.2, within one calendar month from the date of publication of the said Journal.

W. S. JARRATT,
Comptroller-General.

APPOINTMENTS.

LECTURER (male) wanted to give address on Beauty Culture; complete sales story supplied and every assistance given to the lecturer to work up a powerful sales-compelling address. 189/721, Office of this Paper.

AGENCIES.

AGENTS wanted for "Wavecurl" Toilet Preparation, a line that sells at sight; 100 per cent. profit. Apply Ernst. Schlichtmeyer G.m.b.H., Bad Durrenburg, Luznerstr 54, Germany. 21d. postage.

COMMISSION Agents wanted to sell Cough Pastilles; only first-class men with established connections and working the Wholesale trade; forceful selling campaign now being arranged for the winter, supported by national and trade advertising. Sherwood Confectionery Co., Worksop, Notts.

SCHERING, Kahlbaum, Agent, with many years' experience and best connections, who will be disengaged from October 1 of this year owing to opening of local office, seeks from this time or later Agencies of first-class, capable factories in the Chemical and/or Pharmaceutical trade for Hessen and Hessen-Nassau; first-class references are available. Please write to F.C.3508 c/o Rudolf Mosse, Frankfurt a/M., Germany.

WANTED, Agents, already selling to Chemists, for good selling side line for South Coast, East Coast, North Wales, Durham and Northumberland, Scotland and Ulster; South Midlands and Yorkshire also considered; commission only, no salary. Apply 193/21, Office of this Paper.

PARTNERSHIPS.

GENTLEMAN, with £7,000 at his disposal, wishes to invest and take an active interest in a well-established Wholesale or Retail Business. All replies in strict confidence to BM/EPTK, London, W.C.1.

QUALIFIED Partner required, with small capital; promising position. Further particulars on application. 196/37, Office of this Paper.

PARTNER required to take charge of good-class Business near London; capable man with good ideas in Window Display, prepared to put full energies into the building up of a developing business; capital necessary, about £500; salary and proportionate share of profits. Apply (in confidence), giving age and experience, to 194/22, Office of this Paper.

PARTNER, with substantial capital, wanted in a Wholesale Drug and Toilet Articles, Chemists' Packing Business; is old established, in chief town in South Wales; with greater capital and modern methods of progressive firms great results can be accomplished. 195/2, Office of this Paper.

PREMISES FOR SALE.

NORTHAMPTONSHIRE.—Excellent House and Premises in a provincial town of over 4,000 inhabitants without the services of a resident Chemist; the premises are in the best position in the centre of the town, and possession can be arranged for at an early date; price, freehold, £850; fixtures at valuation. Apply 194/32, Office of this Paper.

APARTMENTS.

RESIDENTIAL CLUB FOR GENTLEMEN.
HAMPDEN CLUB, Hampden Street, N.W.1, close to King's Cross Station. Large club rooms, 300 bedrooms and bed-sitting rooms, 15s. to 25s. per week. Illustrated Prospectus, Secretary. Museum 3424.

SITUATIONS OPEN.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

RETAIL (HOME).

BURNLEY, LANCs.—Qualified Assistant required. State age, experience, salary, references. David Weir, Ltd., 175 Oxford Road, Burnley.

CAMBRIDGE.—Junior or Improver, age 20-22, end of August; Light Dispensing; good Counterwoman, Window-dresser; outdoor. Apply, by letter, with full particulars and salary expected. Evans, Chemist, 92a Mill Road.

DERBYSHIRE.—Qualified lady wanted: at once to manage small branch in country village; easy and comfortable berth. Apply, with usual particulars (salary, etc.), to 194/26, Office of this Paper.

EASTERN COUNTIES.—Wanted. Qualified Manager with view to Partnership. Apply, 189/717, Office of this Paper.

ILFORD, ESSEX.—Qualified Branch Manager wanted; lock-up shop adjoining park; must be a good Salesman and Window-dresser, N.H.I. small; age 26 to 40 years. Apply, giving full particulars of experience, age, height, salary required, photo if possible, to T. Bellamy, Pharmaceutical Chemist, 2 Tindal Square, Chelmsford, Essex.

LIVERPOOL.—Chemist, male or female, recently qualified, required for new business; light Dispensing; no Sunday work. Please give full particulars and salary required to B. W. Wortley, 1 Albany Road, Stoneycroft, Liverpool. Applications by letters only.

LLANDUDNO.—Lacy Assistant (unqualified) required immediately; must be capable Dispenser, with Photographic and good all-round Pharmacy experience; outdoors; permanent. Full particulars, with photograph, to Miss Hornblow, 4 Queen's Buildings, Llandudno.

LOCUM, unqualified, young, wanted from August 17 to September 19; Light Dispensing and Counter; Hertfordshire. State salary and usual particulars. 189/720, Office of this Paper.

MANCHESTER.—Qualified Manager, good Salesman and Window-dresser essential, required for progressive industrial business; salary and liberal commission. Give full details of age, experience, and when free to 189/712, Office of this Paper.

MIDLANDS.—Smart, qualified Manager, with experience of Agricultural trade, required for modern business in market town; good prospects for keen Salesman and good Window-dresser; house attached. State age, previous experience, salary required, and when at liberty to 189/713, Office of this Paper.

NEAR HARROW.—Wanted, early September for good-class business, young lady, unqualified, capable Dispenser, with knowledge of Book-keeping. State full particulars of experience and salary required to 194/40, Office of this Paper.

NORTH LONDON SUBURB.—Unqualified Junior Assistant, reliable and of good address, for good-class Retail and Dispensing business. Give full particulars of age, height, experience and salary required, and photo if possible. 195/13, Office of this Paper.

NEAR MANCHESTER.—Qualified Assistant required; one used to middle-class business with N.H.I.; must be reliable. Give full particulars in first letter. 195/7, Office of this Paper.

SOUTHALL, MIDDLESEX.—Chemist has vacancy for unqualified lady Assistant or Improver for general shop work, Window-dressing, etc.; no Sunday duty. State usual particulars and salary required. 196/35, Office of this Paper.

SOUTH WALES.—Permanency for capable Senior Assistant with Optical qualification and Window-dressing ability; must have pleasing personality. Apply, giving full particulars of age, experience, height, etc., to Melville Thomas, Chemist, Neath.

YORKSHIRE.—Qualified lady, young, to manage new branch. State full particulars of experience and salary. 193/16, Office of this Paper.

YORKSHIRE.—Qualified Manager required for new branch for end of August. State age, reference, salary required, etc. 194/18, Office of this Paper.

A QUALIFIED Manager wanted for a quiet country branch; must be an experienced Salesman, good Window-dresser, and pleasant disposition; salary £4 weekly; live out. William Challice, Ltd., 9, St. Leonard's Avenue, Hayling Island, Hants.

A VACANCY will shortly occur for Second Assistant, lady or gentleman, in high-class business. Apply, with full particulars as to age, salary required (outdoors), qualification (if any). Applications not answered in three days respectfully declined. Sharman, Chemist, Northwood, Middlesex.

A YOUNG, qualified Assistant wanted for fortnight or probably a month from August 17 for business in country town; experienced in Dispensing, Photography and Counter. Reply, giving two references and usual particulars as to experience and salary (outdoors). White, Tenbury Wells, Worcestershire.

J.C.Q.O. OPTICIAN, with Pharmacy training, required immediately for middle-class business on South Coast. State full particulars of experience, height, age and salary required, enclose photo. 196/34, Office of this Paper.

JUNIOR or Improver (male) wanted; knowledge of Developing and Printing essential. State age, experience, references, and salary required (indoors); photo if possible. Williams & Smith, 21 West Street, Horsham.

LADY Assistant, qualified, for suburban business; must be a quick and accurate Dispenser and have pleasant personality; permanent and progressive post. Please state salary and particulars in first letter. 195/8, Office of this Paper.

LADY Assistant for Counter. State wages, experience, etc., Herbert's Drug Stores, 209 Vauxhall Bridge Road, London, S.W.1.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

LOCUM, qualified, indoors, London, small Family business, from August 4-24, possibly longer; easy berth; not single-handed. Give salary (approximately). 193/7, Office of this Paper.

LOCUM.—Young, qualified Junior, lady or gentleman, required three weeks. State salary, when free. Scott Wishart, 321a Lower Addiscombe Road, Croydon.

LOCUM from August 31 for 10 or 14 days; young, qualified would suit; with or without Optical qualification. Hall, Chemist, 68 High Street, Reigate.

M.P.S.—MANAGER (either sex); must be good Salesman; preference given to F.S.M.C. (and Supplementary) who after 3 months' satisfactory service would be prepared to invest £300 to help finance extensions; fullest investigation; references given and desired; state salary required. Box G.525, Lee & Nightingale, Liverpool.

PHARMACEUTICAL qualified Assistant wanted: hours 8 a.m. to 6 p.m. week-days, 8 a.m. to 1 p.m. Saturdays. Applications, in writing, giving full particulars as to age, experience, references, and wage required, etc., to Samuel Thornley, Ltd., 6 Snow Hill, Birmingham.

PROGRESSIVE company, increasing capital, require smart, qualified Managers for new high-class shops, all commanding sites in busy centres; applicants must be able to invest £500 on profit-sharing basis. 195/20, Office of this Paper.

QUALIFIED Assistant, young, male, from August 4 for three weeks. All particulars to Crawford, Chemist, Horley, Surrey.

QUALIFIED Locum required for London, W.1, August 17 to September 5; good Dispensing and general experience essential. State full particulars, age and remuneration, to 196/12, Office of this Paper.

REQUIRED, a Junior or Improver, male, young, who has recently completed his apprenticeship. Apply in first instance by letter only, giving full particulars, salary required, etc., to Green, Chemist, 62a Plumstead Common Road, Plumstead, S.E.18.

REQUIRED immediately for a permanent position in progressive London store, a lady Assistant, with Minor qualifications; good Retail experience essential. Apply, by letter, giving age, full particulars of positions held, and salary desired, to Box 5191, Frost-Smith Advg., 64 Finsbury Pavement, E.C.2.

SMART, unqualified Junior required at once; good Dispensing experience essential. Apply, stating age, experience, and salary required, Morgan, Chemist, Woodbridge Road, Guildford.

SMART Assistant wanted (male) for Dispensing and Counter; must be a good Window-dresser, not over 25 years of age. Personal application only to Wave & Co., 328 Vauxhall Bridge Road, Victoria, S.W.1.

THE CIVIL SERVICE SUPPLY require qualified lady Dispenser for their City Store; salary 70s. per week; hours 8.45 to 6 p.m., 1 p.m. Saturday; no Sunday work. Write in first instance, giving fullest details of experience, age, etc., to Staff Manager, 136 Queen Victoria Street, E.C.4.

TIMOTHY WHITES are about to open more new branches, and require really capable qualified Managers with previous experience of management; applicants must be energetic and have good organising ability; good salaries; commission; free removal. Send full particulars to Assistant Secretary, Timothy Whites (1928), Ltd., Portsmouth.

UNQUALIFIED Assistant required; young; male; permanency. Details of age, experience, and salary required to Manager, 119 South End, Croydon.

WANTED, Locum, qualified (male), August 24 to September 5 (inclusive); Light Retail, Dispensing, Photography (no D. & P.). Particulars to Hey, Chemist, York.

WANTED, Locum, unqualified, middle-aged, from about August 25 for one month; references first letter. Mrs. M. E. Piquet, Parade Drug Stores, Jersey.

WANTED, a qualified Assistant (lady) for good-class Dispensing. Apply, with full particulars and salary required, to Manager, Junior Army & Navy Stores, York House, Union Street, Aldershot.

WANTED, immediately, qualified Manager for small business (London, S.W.), possibly for only a short time. Full particulars and salary required. "Chemist," 126 Stephendale Road, Fulham, S.W.

YOUNG, qualified Assistant wanted at once, either sex, for good-class country business. State particulars, experience, salary, photo, etc. Wellington, Oakham, Rutland.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

CHEMICAL FLOOR (Wholesale).—Girl, not under 21 years, as Filler and Finisher of Fine Chemicals. Give experience. Apply 189/715, Office of this Paper.

COST Clerk wanted by Wholesale Manufacturing Chemists and Druggists in Manchester district, must have had experience in the costing of Manufactured Drugs and all classes of Pharmaceutical Preparations, Packed Goods, etc. Apply, stating age, salary required, and full particulars of previous experience, 189/710, Office of this Paper.

EXPERIENCED Representatives, with established connections amongst chemists, required to take one or two additional lines on commission. Please write, stating ground covered and usual particulars, in confidence, Gold Seal Proprietaries, Ltd., Old Town, Croydon.

LONDON Wholesale House requires smart young man for Proprietary Goods Department; to one with requisite knowledge and experience who can supervise buying and keeping of stock and despatch of goods to customers a good opportunity occurs. State age, experience, references, and wages required to 189/716, Office of this Paper.

DRUGS, PERFUMERY AND TOILET GOODS FACTORY.—Costing Clerk (female) required; must be thoroughly experienced in this class of business. Apply by letter to Factory Manager, Harrods, Ltd., 44 Hans Crescent, S.W.1, giving full details of experience, age, salary expected.

REPRESENTATIVE required for Northumberland, Durham and South Scotland ground to call upon Chemists. State age, experience, etc., fully to Thomas Kerfoot & Co., Ltd., Manufacturing Chemists, Bardsley, Lancs.

REPRESENTATIVE, with first-class connection amongst Chemists, Stores, etc., wanted by London Manufacturing Firm; good salary and commission to right man, and every encouragement; must have good references. Call or write, Freers Manufacturing Co., Ltd., 5 Gravel Lane, Houndsditch, E.C.3.

REPRESENTATIVES wanted in England, Wales and Scotland by firm established over 40 years to offer finest quality Medicated Lozenges, Pastilles, Tablets, Wafers, Pellets, Cachous, etc., amongst Wholesale Chemists and Druggists; very profitable commission basis; state full particulars and ground covered; only men with good connections need apply. 189/711, Office of this Paper.

SOUTHALL BROS. & BARCLAY, LTD., require Representative for Eastern Counties. Apply, giving full details of age, qualifications, salary, etc., to 19 Lower Priory, Birmingham.

TRAVELLER, London district, to sell low-priced Household Remedies; generous commission; must have served regular apprenticeship to chemist. Apply Manager, 301 Wandsworth Bridge Road, Fulham, S.W.6. Phone: Fulham 3292.

WANTED, Representatives for Manufacturer of India Rubber Surgical, Sports and Fancy Goods in the following territories: London and district; Birmingham and district; Manchester and district; Leeds and district; Scotland. State terms, past experience, etc., to 189/709, Office of this Paper.

WHOLESALE Druggists require Foreman; one used to receiving and keeping stocks of Drugs and Bottles and with experience of handling Heavy Oils, etc. 189/714, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

FOR THE EAST.—Chemist. Qualified Assistant; gentlemanly appearance and address; good Salesman and Dispenser; age 22/24; single; 4 years' agreement; passage paid out and home. Full particulars, with photo if possible, and copies of testimonials to Box R.666, Willings, 133 Moorgate, E.C.2.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less, 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.—ASSISTANT; unqualified; 27; first-class experience (7 years); active worker; tall; London only; moderate salary; available immediately. Griffiths, Post Office, Talybont, Cardiganshire.

A.A.—SMART young Assistant, Dispenser, Salesman, Stock, desires change. Details, "Advertiser," Holly House, Wotton-under-Edge, Gloucester.

A.A.—UNQUALIFIED, 21, desires Locums; Leeds and district; excellent references; reasonable terms. 15 St. George's Terrace, Leeds.

A.A.—ADVERTISER; 40; unqualified; 5 ft. 8 in.; emergency. Locum, permanency; well recommended; abstainer; disengaged. Alexander, 189 Southampton Street, S.E.5.

A QUALIFIED Chemist; comprehensive knowledge trade; permanency or locum, with view to permanency; free August 1. "Chemist," 72 Camberwell Road, S.E.5.

A THOROUGHLY competent, young qualified man desires Locum August 17-30, and permanency from September 14; succession or partnership entertained. Forrest, 68 Grafton Road, Acton, W.3.

A CAPABLE, qualified lady requires permanent post as Manageress; experienced in all branches; London preferred. 196/10, Office of this Paper.

A QUALIFIED Manager, 32, married, desires permanency, with living accommodation; varied experience; used to staff control. "Cymro," 195/27, Office of this Paper.

A DVERTISER, 29, married, desires change and permanency; 14 years' experience (six years as manager); excellent references. 196/20, Office of this Paper.

A S Locum or permanency; tall; unqualified; 22; competent; energetic; experienced; persuasive Salesman; highest credentials. "Spero," 70 Grafton Road, Handsworth, Birmingham.

A S Senior, tall, single, 25 years' high-class Pharmacy and Dispensing experience, desires permanency shortly in good-class Dispensing and Retail business; distance immaterial. "W. H.," 56 Danes Road, Exeter.

A SSISTANT; capable; Dispenser, Salesman; Photo; London experience; middle-aged; single; unqualified. "Statim," 228 Lockwood Road, Huddersfield.

A SSISTANT; 22; Part I; 4½ years' experience; Counter, Dispensing, Photographic. Baines, 47 Court Way, Colindale, N.W.9.

A SSISTANT, 20 (Part I), requires position during vacation; available August 14-September 30; reliable; good all-round experience; excellent references. Gordon, Minor, 2 Penylan Place, Penylan, Cardiff.

A SSISTANT; all-round experience; competent Salesman and Dispenser; tall; 44; unregistered; permanency (emergency). "Statim," 23 Doughty Street, Holborn, W.C.1.

CHEMIST; qualified; Wholesale or Retail; reliable worker; first-class experience; Locums or permanency. Preston, 3 Oldcastle Avenue, Withington, Manchester.

EDINBURGH.—Articled apprentice, 21, requires situation in above or suburbs; smart, energetic, capable; Part I student; excellent all-round experience. 195/38, Office of this Paper.

E XPERIENCED, qualified lady requires a post as Manageress or First Dispenser. For reference and particulars, apply 195/29, Office of this Paper.

E XPERIENCED, qualified lady desires position; London, Surrey, Kent or Sussex, but not essential. 196/31, Office of this Paper.

F ORTNIIGHTS or longer; first-class, experienced chemist; locum; disengaged August 23 to 30 inclusive; from Stourbridge, and after September 12 from Andover. Address, till August 6: Pitt, c/o Spong, Chemist, Biggleswade.

J UNIOR, 21, good appearance, requires situation immediately; experience in N.H.I. Dispensing. Barnes, 4 Devon Road, Fishponds, Bristol.

KATHLEEN M. FOX; qualified; locum or permanency; Northern county preferred; excellent references. 210 St. George's Road, Bolton.

LADY Assistant; Part I; general experience; any time until October. "E. R.," 27 Margaret Street, Ammanford, Carmarthenshire.

LADY desires post, Counter Assistant; experienced good-class business; no Dispensing. "W.," 102 Oriel Road, Portsmouth.

LOCUM; qualified; trustworthy; good varied experience; excellent references; disengaged August 5 to August 22 inclusive; Western Counties preferred. 194/24, Office of this Paper.

LOCUM; qualified; August 1 to August 15; excellent references; London or suburbs. "Chemist," 37 Sackville Gardens, Ilford.

LOCUM—Assistant (referred Pharmacy); any time until October; all-round experience. Leach, 29 Castleton Street, Beechcliffe, Keighley.

LOCUM; qualified lady; "Square" trained; experienced Hospital and Retail; free August 22; London, suburbs. Phillips, 17 Scutari Road, East Dulwich, S.E.22.

LOCUM—Julius Caesar, M.P.S., 5 Marine Terrace, Weymouth, open for Locum engagements; experienced in all branches of pharmacy; highest references.

LOCUM or permanency; unqualified; competent; active; reliable; Prescriber; abstainer; single; free July 27 to August 16, engaged Derby August 17 to 30; free August 31 onwards. Permanent address, Howard, 30 Pimlico, Ilkeston.

LOCUM or permanent; unqualified; small salary for easy berth; 25 years' good experience. "Chemicus," 69 Upper Richmond Road, Putney.

LOCUM or permanency; qualified; at liberty September 1 onwards. C. T. Kemp, 46 Bridge Street, Hereford.

LOCUM—Qualified Pharmacist and Optician, keen, capable, conscientious, has vacant dates after August 15 and September; registered J.C.Q.O., F.B.O.A. C/o Smith, Chemist, Borough Green, Kent.

LOCUM or temporary Assistant; experienced; abstainer; good references; disengaged from August 1 to 14 inclusive; moderate to fill up. "Locum," 142 Hill Lane, Southampton.

LOCUM, Chemist and Optician (N.H.I.), ex-proprietor, at liberty except August 16-30; highest credentials. "Reliable," 11 Cambria Avenue, Ellesmere.

LOCUM; thoroughly capable, with excellent references; free August 1 to 15 inclusive; unqualified. "F.," 131 Mount View Road, N.4.

LOCUM; qualified; free now; middle-aged; well recommended; been in own business; active; reliable. H. D. Field, Berry-narbor, Devon.

LOCUM or temporary position required by Chemist with exceptional experience. 39, who is looking for business to purchase. 196/33, Office of this Paper.

MANAGER OR SENIOR—M.P.S., 28, wants change in autumn; single; smart; capable; best-class businesses; £80 a week turnover in present position; prompt replies. 189/708, Office of this Paper.

MANAGER—Pharmacist, organising, staff control, desires change; Shipping, Retail, etc. 194/14, Office of this Paper.

MANAGER, qualified (Scot), 29, 5 ft. 10 in., London experience, seeks responsible position in or near London as Manager or Senior; references available. 197/5, Office of this Paper.

MANAGERSHIP—Young married couple, no children, willing take over management of business, with view to purchase; husband keen business man, wife M.P.S.; 5 years' experience as Manager, Retail, with Photography; excellent references; if live over shop will accept small salary and commission. Stevenson, 19 St. Aidan Road, Bridlington.

PART-TIME—Dispensing, Stock, Counter; varied experience; S.E. district; good references. Crowther, 18 Elm Road, Beckenham.

QUALIFIED Chemist, experienced, commencing Optical studies, would relieve one day per week; City or South London. 194/20, Office of this Paper.

QUALIFIED, 25, single, Scot, at present supervising Dispensing in high-class Pharmacy, desires position in Scotland, similar, or would tackle Managership; tall and courteous; excellent references; free mid-September. 193/6, Office of this Paper.

QUALIFIED; Manager or Locum; excellent experience in all branches; married; state salary, if living accommodation. 190/17, Office of this Paper.

QUALIFIED, 41, as Manager; married; all-round experience; now disengaged, having sold own business. Dunning, 53 Stanfield Road, Bournemouth.

QUALIFIED, 34, single, as Manager or Senior; excellent experience and references; South or South-West England preferred. 196/8, Office of this Paper.

QUALIFIED Manager desires change; 35; married; Prescribing, Dispensing, Photographic, Window-dressing; exceptional all-round experience. 196/30, Office of this Paper.

ROBERT R. FLETCHER, qualified, good experience, requires permanency or Locum; Northern districts preferred. 110 Bennetts Lane, Bolton, Lancs.

SECOND year Apprentice, City experience, seeks post in City or West End. Write May, 29 Sherwood Road, Addiscombe.

SOUTHEND DISTRICT—Unqualified; 22; tall; Counter, Window-dressing, Photographic; 3 years manager local drug stores. "S. B.," 167 Bournemouth Park Road.

TRUSTWORTHY Manager, 15 years' varied experience, seeks position of responsibility giving scope for advancement; tactful, energetic, fully acquainted with modern business methods; first-class references; aged 35; married. 193/36, Office of this Paper.

UNQUALIFIED seeks position with Chemist, preferably City or South London; experienced; Dispensing, Window-dressing, Counter and Photography; free August 8. P.C.B. 60/180, Office of this Paper.

UNQUALIFIED Locum; till October; abstainer; 23; 5 ft. 8 in.; distance no object. Martin, 128 Tewkesbury Street, Cardiff.

YOUNG lady, Assistant Dispenser, desires post in Dispensing; Hall qualification; good worker; experienced; within travelling distance of Brighton. 8 Prestonville Road, Brighton.

WHOLESALE.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A **PROVED** Salesman, Propagandist and Organiser; well known, with connection throughout North; thorough knowledge Chemists, Stores, allied traders. 196/9, Office of this Paper.

A **YOUNG** man, 24, Scot, tall, and of good appearance, desires progressive position with first-class firm with view to representing them; nine years' Retail experience; energetic, conscientious worker; at present engaged. 195/17, Office of this Paper.

A **WELL-KNOWN**, experienced Representative, with strong personal connection Midlands and surrounding counties, desires to represent first-class house; keen, conscientious worker; undeniable references; qualified; own car if required. 195/28, Office of this Paper.

COMPETENT, trustworthy man, 29, desires appointment; costing, wages, orders, stocks, works and departmental figures; Packed Goods, Specialities trades. 195/26, Office of this Paper.

EXPERIENCED and capable Medical Propagandist, 25, qualified pharmacist, desires represent first-class house; smart appearance and requisite personality; London or South Coast preferred; can drive car. 195/37, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

ADVERTISERS would consider the **PURCHASE OF GOODWILL**, etc., of any **PATENT MEDICINE** or **PROPRIETARY ARTICLE**—or **ARRANGE** for its **MANUFACTURE** and **DISTRIBUTION**.

State full particulars, 174/209, Office of this Paper.

LABORATORY Assistant; 28; disengaged; 14 years' practical experience Manufacturing high-class Medicinal and Toilet Preparations, Ointments, Vanishing Creams, etc.; excellent references. Rogers, 101 Cazenove Road, Stamford Hill, N.

PHARMACEUTICAL Chemist, 25, single, Scot, desires post in Wholesale; at present in charge of Dispensing and Manufactures in high-class pharmacy; excellent references; free mid-September; Scotland preferred. 193/60, Office of this Paper.

REPRESENTATIVE, wide experience medical propaganda and sales to trade in England, Scotland and South America, requires engagement; moderate salary. "Kismet," Mill Lane, Rustington, Sussex.

REPRESENTATIVE for old-established firm, now calling on Chemists, requires an additional line, Proprietary preferred, on expense-sharing basis; excellent references; own car. 196/14, Office of this Paper.

UNQUALIFIED, 26, seeks position with Wholesale or Manufacturing Chemists in London; willing and energetic worker; slight experience. P.C.B. 60/18, Office of this Paper.

YOUNG man, 26, 6 years' Retail experience, seeks situation representing firm of repute. "G. B.," 4 Maidman Street, E.3.

COLONIAL, INDIAN AND FOREIGN.

ADVERTISER desires to represent an Export Firm of Chemists of good standing in India, Burma and Ceylon; very good connection amongst large buyers. Ramsay, Collingham, Yorks.

YOUNG gentleman desires post abroad; unqualified but has intimate knowledge of all branches of trade; 3 years' apprenticeship; 3 years with present employer in high-class business; well recommended. 194/3, Office of this Paper.

MISCELLANEOUS.

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A PHARMACY, fitted with reconditioned 5-ft. Showcase front Counter, 9-ft. Drugfitting with mahogany-fronted Drawers, 4-ft. mahogany Wall Showcase, 4-ft. 6-in. mahogany Dispensing Screen, drawers at back, mahogany Perfume Case and Desk, £60 the Set. Many other Sets in stock to suit any shop. Call and make your selection. Upright and Flat Counter Cases, Silent Salesmen, All-glass Counters, Display Stands, Swan-neck and Pear-shape Carboys, Recessed Label Shop Rounds, Electric Signs, Check Tills, etc., cheap. RUDDUCK & CO., 219 Old Street, London, E.C.1.

CLEAR OUT—your Old or Damaged Stock of Photo Goods

Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes), Old Photo Goods or Cameras, Bromide Papers, Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

S. E. HACKETT, 23 July Road, Liverpool

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass Fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., ready for immediate delivery at competitive prices. Write or call for List. F. MAUND & E. BERG (SHOWCASES), LTD., 175/9 and 336 Old Street, London, E.C.1.

CHEMISTS' FITTINGS.—Complete set in mahogany. Complete Drugfittings, 14 ft. long and 10 ft. long, 36 drawers; Wallcase, 8 ft. long; Serving Counter, case front, 10 ft. long; Dispensing Screen, mirror centre, 7 ft. long; two 4 ft. Nests Counter Drawers; cheap to clear; also set in polished oak. Sketches by return. GEORGE COOK, The Working Shopfitter (over 40 years' experience), 27, Macclesfield Street, City Road, E.C.1.

GARDNER or similar Mixer wanted, capable of handling 5-10 cwt. Quote best price for spot cash. 189/722, Office of this Paper.

SECOND-HAND AND SHOP-SOILED FITTINGS.—A large quantity of these for sale at bargain prices. Send requirements to or call and inspect at PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, E.C.1. "Pharmacy Fitters for over a Century."

£?—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showroom a Complete Chemist Shop with Metal Shop Front, Window Backs, Correct Window Lighting Signs and Modern Interior Fittings. 40-page Catalogue on request. D. MATTHEWS & SON, "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

EXCHANGE COLUMN.

FOR DISPOSAL.

TWO "NATIONAL" CASH TILLS, in good order; total adders; ring up to £1; recently overhauled by National Co. For further particulars please write E. E. Bruntnell, 33 Eglington Road, Plumstead.

WANTED.

GOWER, Chemists' Bookseller, 41, Voltaire Road, Clapham, wants Pharmaceutical Books, including B.P., Pharmaceutical Formulas, B.P.C., P.J.F., Optical Books, Materia Medica Collections.

SECOND-HAND LABELLING MACHINE wanted to handle 4-oz bottles. Quote lowest price for spot cash. 189/723, Office of this Paper.

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(P.F. Vol 1.)

The tenth edition of this, the most complete pharmaceutical formulary in the English language, comprises (1) selected formulas from the British, United States and several other pharmacopœias; (2) unofficial formulas from hospital pharmacopœias and other sources, British, colonial and foreign; (3) known, admitted and approved remedies (218 pages) taken from previous editions of "Pharmaceutical Formulas"; and from "The Chemist and Druggist" Diaries; (4) concise descriptions of practical methods of manufacture, adapted to the retail shop; (5) an Appendix comprising laws and regulations governing the sale of poisons, the hours of closing, medicine-stamp duty, the use of spirits and many other data—e.g., a solubility table and chart

PRICE 15/- By post 15/9

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